

REGULATION 5.15 Chemical Accident Prevention Provisions

**Air Pollution Control District of Jefferson County
Jefferson County, Kentucky**

Relates to: KRS Chapter 77 Air Pollution Control

Pursuant to: KRS Chapter 77 Air Pollution Control

Necessity and Function: KRS 77.180 authorizes the Air Pollution Control Board to adopt and enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation implements the provisions of 40 CFR Part 68 *Chemical Accident Prevention Provisions* as required by the Act §112 (r).

~~SECTION 1 – Definitions~~

~~“This Part” means this regulation.~~

~~SECTION 2~~

~~This regulation shall read as follows:~~

SECTION 1 ~~i~~ ~~Subpart A – General~~

~~68.1 – Scope.~~

This ~~Part~~Regulation sets forth the list of regulated substances and thresholds and the requirements for owners or operators of stationary sources concerning the prevention of accidental releases. The list of substances, threshold quantities, and accident prevention requirements of Regulation 5.15 ~~do not limit in any way the general duty provisions under the Act §section 112(r)(1).~~ of the U.S. Clean Air Act.

~~68.2 – Stayed Provisions.~~

~~(a) – [Reserved]~~

~~(b) – [Reserved]~~

~~(c) – Notwithstanding any other provision of this Part, the effectiveness of this Part is stayed from June 21, 1999, to December 21, 1999, with respect to regulated flammable hydrocarbon substances when the substance is intended for use as a fuel and does not exceed 67,000 pounds in a process that is not manufacturing the fuel,~~

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~~does not contain greater than a threshold quantity of another regulated substance, and is not collocated or interconnected to another covered process.~~

1.1 ~~68.3~~ Definitions. For the purposes of this ~~Part~~ regulation:

1.1.1 ~~(1)~~ Accidental release means an unanticipated emission of a regulated substance or other extremely hazardous substance into the ambient air from a stationary source.

1.1.2 ~~(2)~~ Act means the Clean Air Act, as amended (42 U.S.C. §7401 *et seq.*.)

~~(3)~~ [Reserved]

1.1.3 ~~(4)~~ Active measures mean risk management measures or engineering controls that rely on mechanical, or other energy input to detect and respond to process deviations. Examples of active measures include alarms, safety instrumented systems, and detection hardware (such as hydrocarbon sensors).

~~1.1.31.1.4~~ Administrative controls mean written procedural mechanisms used for hazard control.

1.1.5 ~~(5)~~ The District means the Louisville Metro Air Pollution Control District.

~~1.1.41.1.6~~ AICHE/CCPS means the American Institute of Chemical Engineers/Center for Chemical Process Safety.

~~1.1.51.1.7~~ ~~(6)~~ Air permitting authority API means the ~~District~~ American Petroleum Institute.

~~1.1.61.1.8~~ ~~(7)~~ Article means a manufactured item, as defined under 29 CFR §1910.1200(b), that is formed to a specific shape or design during manufacture, that has end use functions dependent in whole or in part upon the shape or design during end use, and that does not release or otherwise result in exposure to a regulated substance under normal conditions of processing and use.

~~1.1.71.1.9~~ ~~(8)~~ API means the ~~American Petroleum Institute~~. ~~(9)~~ ASME means the American Society of Mechanical Engineers.

~~1.1.81.1.10~~ ~~(10)~~ CAS means the Chemical Abstracts Service.

~~1.1.91.1.11~~ ~~(11)~~ Catastrophic release means a major uncontrolled emission, fire, or explosion, involving one or more regulated substances that presents imminent and substantial endangerment to public health and the environment.

1.1.12 ~~(12)~~ CBI means confidential business information.

~~1.1.101.1.13~~ Classified information means “classified information” as defined in the Classified Information Procedures Act, 18 U.S.C. App. 3, section 1(a) as “any information or material that has been determined by the United States Government pursuant to an executive order, statute, or regulation, to require protection against unauthorized disclosure for reasons of national security.”

~~1.1.111.1.14~~ ~~(13)~~ Condensate means hydrocarbon liquid separated from natural gas that condenses due to changes in temperature, pressure, or both, and remains liquid at standard conditions.

~~1.1.121.1.15~~ ~~(14)~~ Covered process means a process that has a regulated substance present in more than a threshold quantity as determined under ~~§68.115~~ section 6.2.

~~1.1.131.1.16~~ ~~(15)~~ Crude oil means any naturally occurring, unrefined petroleum liquid.

~~(16)~~ [Reserved]

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~~1.1.141.1.17~~ (17) — *DOT* means the United States Department of Transportation.

~~1.1.151.1.18~~ (18) — *Environmental receptor* means natural areas such as national or state parks, forests, or monuments; officially designated wildlife sanctuaries, preserves, refuges, or areas; and Federal wilderness areas, that could be exposed at any time to toxic concentrations, radiant heat, or overpressure greater than or equal to the endpoints provided in ~~§68.22(a), section 2.2.1~~, as a result of an accidental release and that can be identified on local U. S. Geological Survey maps.

~~1.1.161.1.19~~ (19) — *Field gas* means gas extracted from a production well before the gas enters a natural gas processing plant.

~~1.1.171.1.20~~ (20) — *Hot work* means work involving electric or gas welding, cutting, brazing, or similar flame- or spark-producing operations.

~~1.1.181.1.21~~ (21) — *Implementing agency* means the District.

~~1.1.22~~ (22) — *Inherently safer technology or design* means risk management measures that minimize the use of regulated substances, substitute less hazardous substances, moderate the use of regulated substances, or simplify covered processes in order to make accidental releases less likely, or the impacts of such releases less severe.

~~1.1.191.1.23~~ *Injury* means any effect on a human that results either from direct exposure to toxic concentrations; radiant heat; or overpressures from accidental releases or from the direct consequences of a vapor cloud explosion (such as flying glass, debris, and other projectiles) from an accidental release and that requires medical treatment or hospitalization.

~~1.1.201.1.24~~ (23) — *LEPC* means the Louisville/Jefferson County, Kentucky Local Emergency Planning Committee.

~~1.1.211.1.25~~ (24) — *Major change* means introduction of a new process, process equipment, or regulated substance; an alteration of process chemistry ~~or an increase in the quantity of a regulated substance~~ that results in any change to safe operating limits; or other alteration that introduces a new hazard ~~or increases the quantity of a regulated substance by 15% or more.~~

~~1.1.221.1.26~~ (25) — *Mechanical integrity* means the process of ensuring that process equipment is fabricated from the proper materials of construction and is properly installed, maintained, and replaced to prevent failures and accidental releases.

~~1.1.231.1.27~~ (26) — *Medical treatment* means treatment, other than first aid, administered by a physician or registered professional personnel under standing orders from a physician.

~~1.1.241.1.28~~ (27) — *Mitigation or mitigation system* means specific activities, technologies, or equipment designed or deployed to capture or control substances upon loss of containment to minimize exposure of the public or the environment. -Passive mitigation means equipment, devices, or technologies that function without human, mechanical, or other energy input. Active mitigation means equipment, devices, or technologies that need human, mechanical, or other energy input to function.

~~1.1.251.1.29~~ (28) — *NAICS* means North American ~~Industrial~~ Industry Classification System.

~~1.1.30~~ *NFPA* means the National Fire Protection Association.

~~1.1.261.1.31~~ (29) — *Natural gas processing plant (gas plant)* means any processing site engaged in the extraction of natural gas liquids from field gas, fractionation of mixed natural gas liquids to natural gas products, or both, classified as ~~NAICS code~~

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- ~~21112~~.North American Industrial Classification System (NAICS) code 21112 (previously Standard Industrial Classification (SIC) code 1321).
- ~~1.1.32~~ (30) ~~—~~New Process means a process the construction or reconstruction of which begins after ****insert date of finalization of version 4 of this regulation.**
- ~~1.1.271.1.1~~~~NFPA means the National Fire Protection Association.~~
- ~~1.1.281.1.33~~ (31) ~~—~~Offsite means areas beyond the property boundary of the stationary source, and areas within the property boundary to which the public has routine and unrestricted access during or outside business hours.
- (32) ~~—~~OSHA means the U.S. Occupational Safety and Health Administration.
- ~~1.1.291.1.34~~ (33) ~~—~~ Owner or operator means any person who owns, leases, operates, controls, or supervises a stationary source.
- ~~1.1.35~~ (34) ~~—~~Passive measures mean risk management measures that use design features that reduce either the frequency or consequence of the hazard without human, mechanical, or other energy input. Examples of passive measures include pressure vessel designs, dikes, berms, and blast walls.
- ~~1.1.301.1.36~~ Petroleum refining process unit means a process unit used in an establishment primarily engaged in petroleum refining as defined in NAICS code 32411 for petroleum refining (formerly SIC code 2911) and used for the following:
~~producing~~Producing transportation fuels (such as gasoline, diesel fuels, and jet fuels), heating fuels (such as kerosene, fuel gas distillate, and fuel oils), or lubricants;
~~separating~~Separating petroleum; or ~~separating~~Separating, cracking, reacting, or reforming intermediate petroleum streams. Examples of such units include, but are not limited to, petroleum based solvent units, alkylation units, catalytic hydrotreating, catalytic hydrorefining, catalytic hydrocracking, catalytic reforming, catalytic cracking, crude distillation, lube oil processing, hydrogen production, isomerization, polymerization, thermal processes, and blending, sweetening, and treating processes. Petroleum refining process units include sulfur plants.
- ~~1.1.311.1.37~~ (35) ~~—~~Population means the public.
- ~~1.1.38~~ (36) ~~—~~Practicability means the capability of being successfully accomplished within a reasonable time, accounting for economic, environmental, legal, social, and technological factors. Environmental factors would include consideration of potential transferred risks for new risk reduction measures.
- ~~1.1.39~~ Procedural measures mean risk management measures such as policies, operating procedures, training, administrative controls, and emergency response actions to prevent or minimize incidents.
- ~~1.1.321.1.40~~ Process means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances, or combination of these activities.- For the purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- ~~1.1.331.1.41~~ (37) ~~—~~Produced water means water extracted from the earth from an oil or natural gas production well, or that is separated from oil or natural gas after extraction.

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~~1.1.341.1.42~~ (38) — *Public* means any person except employees or contractors at the stationary source.

~~1.1.351.1.43~~ (39) — *Public receptor* means offsite residences, institutions (e.g., schools, hospitals), industrial, commercial, and office buildings, parks, or recreational areas inhabited or occupied by the public at any time without restriction by the stationary source where members of the public could be exposed to toxic concentrations, radiant heat, or overpressure, as a result of an accidental release.

~~1.1.361.1.44~~ (40) — *Regulated substance* is any substance listed pursuant to ~~the Act §section~~ 112(r)(3) of the Clean Air Act as amended, in §68.130section 6.6.

~~1.1.371.1.45~~ (41) — *Replacement in kind* means a replacement that satisfies the design specifications.

~~1.1.381.1.46~~ (42) — *Retail facility* means a stationary source at which more than one-half of the income is obtained from direct sales to end users or at which more than one-half of the fuel sold, by volume, is sold through a cylinder exchange program.

~~1.1.391.1.47~~ (43) — *RMP* means the risk management plan required under ~~Subpart G of this Part~~section 7.

1.1.48 (44) — *Root cause* means a fundamental, underlying, system-related reason why an incident occurred.

~~1.1.401.1.49~~ *Stationary source* means any buildings, structures, equipment, installations, or substance emitting stationary activities which belong to the same industrial group, which are located on one or more contiguous properties, which are under the control of the same person (or persons under common control), and from which an accidental release may occur. -The term stationary source does not apply to transportation, including storage incident to transportation, of any regulated substance or any other extremely hazardous substance under the provisions of this ~~Part~~regulation. A stationary source includes transportation containers used for storage not incident to transportation and transportation containers connected to equipment at a stationary source for loading or unloading. Transportation includes, but is not limited to, transportation subject to oversight or regulation under 49 CFR ~~Parts~~parts 192, 193, or ~~195 (1997),~~ or a state natural gas or hazardous liquid program for which the state has in effect a certification to DOT under 49 U.S.C. §section 60105.- A stationary source does not include naturally occurring hydrocarbon reservoirs. -Properties shall not be considered contiguous solely because of a railroad or pipeline right-~~of-~~way.

1.1.50 (45) — *Third-party audit* means a compliance audit conducted pursuant to the requirements of section 3.7 and/or section 4.9, performed or led by an entity (individual or firm) meeting the competency and independence described in section 3.7.3 or section 4.9.3.

~~1.1.411.1.51~~ *Threshold quantity* means the quantity specified for regulated substances pursuant to ~~the Act §section~~ 112(r)(5) of the Clean Air Act as amended, listed in ~~§68.130section 6.6~~ and determined to be present at a stationary source as specified in ~~§68.115section 6.2 of this regulation.~~

~~1.1.421.1.52~~ (46) — *Typical meteorological conditions* means the temperature, wind speed, cloud cover, and atmospheric stability class, prevailing at the site based on data gathered at or near the site or from a local meteorological station.

~~1.1.431.1.53~~ (47) — *Vessel* means any reactor, tank, drum, barrel, cylinder, vat, kettle, boiler, pipe, hose, or other container.

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- ~~1.1.441.1.54~~ (48) — ~~Worst-case release~~ means the release of the largest quantity of a regulated substance from a vessel or process line failure that results in the greatest distance to an endpoint defined in ~~§68.22(a)~~ section 2.2.1.
- 1.2 ~~68.10~~ Applicability.
- 1.2.1 ~~(a)~~ ~~An~~ Except as provided in paragraphs 1.3.2 through 1.3.5 of this section, an owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under ~~§68.115~~ section 6.2, shall comply with the requirements of this ~~Part~~ regulation no later than the latest of the following dates:
- 1.2.1.1 ~~(1)~~ — June 21, 1999~~;~~;
- 1.2.1.2 ~~(2)~~ — Three years after the date on which a regulated substance is first listed under ~~§68.130~~ or section 6.6;
- 1.2.1.3 ~~(3)~~ — The date on which a regulated substance is first present above a threshold quantity in a process~~;~~ or
- 1.2.1.4 ~~(b)~~ — For any revisions to this regulation, the effective date of the final version that revises this regulation.
- 1.2.2 By March 14, 2018, the owner or operator of a stationary source shall comply with the emergency response coordination activities in section 5.2.
- 1.2.3 Within three years of when the owner or operator determines that the stationary source is subject to the emergency response program requirements of section 5.3, pursuant to section 5.1.1, the owner or operator must develop and implement an emergency response program in accordance with section 5.3.
- 1.2.4 By ***insert date four years from finalization of version 4 of this Regulation, the* owner or operator shall comply with the following provisions promulgated on ***insert date of finalization of version 4 of this Regulation:*
- 1.2.4.1 Third-party audit provisions in sections 3.6.5, 3.6.6, 3.6.7, 3.7, 4.8.6, 4.8.7, 4.8.8, and 4.9;
- 1.2.4.2 Incident investigation root cause analysis provisions in sections 3.8.4.7 and 4.10.4.7;
- 1.2.4.3 Safer technology and alternatives analysis provisions in section 4.2.3.8; and
- 1.2.4.4 Public Meeting provisions in section 8.2.2.
- 1.2.5 By ***insert date one year from finalization of version 4 of this Regulation, the owner or operator shall comply with the risk management plan provisions of Section 7 of this Regulation promulgated on ***insert date of finalization of version 4 of this Regulation, except the information required by sections 7.5.2.6 and 7.5.2.14, which shall be included by ***insert date 60 days after finalization of version 4***
- ~~1.2.21.2.6~~ Program 1 eligibility requirements. -A covered process is eligible for Program 1 requirements as provided in ~~§68.12(b)~~ section 1.4.2 if it meets all of the following requirements:
- ~~1.2.2.1~~ 1.2.6.1 (1) — For the five years prior to the submission of an RMP, the process has not had an accidental release of a regulated substance where exposure to the substance, its reaction products, overpressure generated by an explosion involving the substance, or radiant heat generated by a fire involving the substance led to any of the following offsite:
- ~~1.2.2.1~~ 1.2.6.1.1 (i) ~~Death;~~;
- ~~1.2.2.1~~ 1.2.6.1.2 (ii) ~~Injury;~~ or

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- ~~1.2.2.1.3~~~~1.2.6.1.3~~ (iii) Response or restoration activities for an exposure of an environmental receptor;
- ~~1.2.2.2.1.2.6.2~~ (2) — The distance to a toxic or flammable endpoint for a worst-case release assessment conducted under ~~Subpart B of this Part~~~~section 2~~ and ~~§68.25~~~~section 2.3~~ is less than the distance to any public receptor, as defined in ~~§68.30~~~~section 1.2~~; and
- ~~1.2.2.3.1.2.6.3~~ (3) — Emergency response procedures have been coordinated between the stationary source and local emergency planning and response organizations.
- ~~1.2.3.1.2.7~~ (e) ~~Program 2 eligibility requirements.~~ - A covered process is subject to Program 2 requirements if it does not meet the eligibility requirements of either paragraph (b)~~1.3.2~~ or paragraph (d)~~1.3.4~~ of this section.
- ~~1.2.4.1.2.8~~ (d) ~~Program 3 eligibility requirements.~~ - A covered process is subject to Program 3 if the process does not meet the requirements of paragraph (b)~~1.3.2~~ of this section, and if either of the following conditions is met:
- ~~1.2.4.1.1.2.8.1~~ (1) — The process is in NAICS code 32211, 32411, 32511, 325181, 325188, 325192, 325199, 325211, 325311, or 32532;
- ~~1.2.4.2.1.2.8.2~~ (2) — The process is subject to the OSHA process safety management standard, 29 CFR §1910.119-~~(1997)~~;
- ~~1.2.5.1.2.9~~ (e) If at any time a covered process no longer meets the eligibility criteria of its Program level, the owner or operator shall comply with the requirements of the new Program level that applies to the process and update the RMP as provided in ~~§68.190~~~~section 7.12~~.
- ~~1.2.6.1.2.10~~(f) — The provisions of this ~~Part~~~~regulation~~ shall not apply to an Outer Continental Shelf (“OCS”) source, as defined in 40 CFR §55.2-~~(1997)~~.
- 1.3 ~~68.12~~ General requirements.
- 1.3.1 (a) General requirements. -The owner or operator of a stationary source subject to this ~~Part~~~~regulation~~ shall submit a single RMP, as provided in ~~§§68.150~~~~sections 7.1 to 68.185-7.11~~. The RMP shall include a registration that reflects all covered processes.
- 1.3.2 (b) Program 1 requirements. -In addition to meeting the requirements of paragraph (a)~~1.4.1~~ of this section, the owner or operator of a stationary source with a process eligible for Program 1, as provided in ~~§68.10~~~~(b)~~~~section 1.3.2~~, shall:
- 1.3.2.1 (1) — Analyze the worst-case release scenario for the process;~~(es)~~, as provided in ~~§68.25~~~~section 2.3~~; document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in ~~§68.22~~~~(a)~~~~section 2.2.1~~; and submit in the RMP the worst-case release scenario as provided in ~~§68.165~~~~section 7.6~~;
- 1.3.2.2 (2) — Complete the five-year accident history for the process as provided in ~~§68.42~~~~section 2.9 of this regulation~~ and submit it in the RMP as provided in ~~§68.168~~~~section 7.7~~;
- 1.3.2.3 (3) — Ensure that response actions have been coordinated with local emergency planning and response agencies; and
- 1.3.2.4 (4) — Certify in the RMP the following: “Based on the criteria in ~~40 CFR §68.10~~~~MAPCD Regulation 5.15 section 1.3~~, the distance to the specified endpoint for the worst-case accidental release scenario for the following process~~(es)~~ is less than the distance to the nearest public receptor: [list process]~~(es)~~. Within the past five years, the process~~(es)~~ has ~~(have)~~ had no accidental

release that caused offsite impacts provided in the risk management program rule (~~40 CFR §68.10(b)(section 1)~~-.3.1). No additional measures are necessary to prevent offsite impacts from accidental releases. -In the event of fire, explosion, or a release of a regulated substance from the process;~~(es)~~, entry within the distance to the specified endpoints may pose a danger to public emergency responders. Therefore, public emergency responders should not enter this area except as arranged with the emergency contact indicated in the RMP. -The undersigned certifies that, to the best of my knowledge, information, and belief, formed after reasonable inquiry, the information submitted is true, accurate, and complete. [Signature, title, date signed].”

- 1.3.3 ~~(e)~~ Program 2 requirements. -In addition to meeting the requirements of paragraph ~~(a)~~1.4.1 of this section, the owner or operator of a stationary source with a process subject to Program 2, as provided in ~~§68.10(e),section 1.3.3~~, shall:
- 1.3.3.1 ~~(1)~~—Develop and implement a management system as provided in ~~§68.15,section 1.5~~;
- 1.3.3.2 ~~(2)~~—Conduct a hazard assessment as provided in ~~§§68.20 through 68.42,Section 2~~;
- 1.3.3.3 ~~(3)~~—Implement the Program 2 prevention steps provided in ~~§§68.48 through 68.60Section 3~~ or implement the Program 3 prevention steps provided in ~~§§68.65 through 68.87,(Section 4)~~—;
- 1.3.3.4 ~~Coordinate response actions with local emergency planning and response agencies as provided in section 5.2~~;
- ~~1.3.3.3~~1.3.3.5 Develop and implement an emergency response program, and conduct exercises, as provided in ~~§§68.90 to 68.95,Section 5~~; and
- ~~1.3.3.4~~1.3.3.6 ~~(5)~~—Submit as part of the RMP the data on prevention program elements for Program 2 processes as provided in ~~§68.170section 7.8~~.
- 1.3.4 ~~(d)~~ Program 3 requirements. -In addition to meeting the requirements of paragraph ~~(a)~~1.4.1 of this section, the owner or operator of a stationary source with a process subject to Program 3, as provided in ~~§68.10(d)section 1.3.4~~ shall:
- 1.3.4.1 ~~(1)~~—Develop and implement a management system as provided in ~~§68.15,section 1.5~~;
- 1.3.4.2 ~~(2)~~—Conduct a hazard assessment as provided in ~~§§68.20 through 68.42,Section 2~~;
- 1.3.4.3 ~~(3)~~—Implement the prevention requirements of ~~§§68.65 through 68.87,(Section 4)~~—;
- 1.3.4.4 ~~Coordinate response actions with local emergency planning and response agencies as provided in section 5.2~~;
- ~~1.3.4.3~~1.3.4.5 Develop and implement an emergency response program, and conduct exercises, as provided in ~~§§68.90 to 68.95,Section 5~~; and
- ~~1.3.4.4~~1.3.4.6 ~~(5)~~—Submit as part of the RMP the data on prevention program elements for Program 3 processes as provided in ~~§68.175section 7.9~~.
- 1.4 ~~68.15~~ Management.
- 1.4.1 ~~(a)~~ The owner or operator of a stationary source with processes subject to Program 2 or Program 3 shall develop a management system to oversee the implementation of the risk management program elements.

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- 1.4.2 ~~(b)~~ The owner or operator shall assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements.
- 1.4.3 ~~(e)~~ When responsibility for implementing individual requirements of this ~~Part~~regulation is assigned to persons other than the person identified under paragraph ~~(b)~~1.5.2 of this section, the names or positions of these people shall be documented and the lines of authority defined through an organization chart or similar document.

SECTION 2 ~~Subpart B~~—Hazard Assessment

- 2.1 ~~68.20~~ Applicability. The owner or operator of a stationary source subject to this ~~Part~~regulation shall prepare a worst-case release scenario analysis as provided in ~~§68.25~~section 2.3 of this Regulation and complete the ~~5~~five-year accident history as provided in ~~§68.42~~section 2.9. The owner or operator of a Program 2 ~~or~~and 3 process must comply with all ~~sections~~requirements in ~~this subpart~~section 2 for these processes.
- 2.2 ~~68.22~~ Offsite consequence analysis parameters.
- 2.2.1 ~~(a)~~ Endpoints. For analyses of offsite consequences, the following endpoints shall be used:
- 2.2.2 ~~(1)~~ Toxics. The toxic endpoints provided in ~~Appendix~~appendix A of this ~~Part~~part.
- 2.2.3 ~~(2)~~ Flammables. The endpoints for flammables vary according to the scenarios studied:
- 2.2.3.1 ~~(i)~~ Explosion. An overpressure of 1 psi.
- 2.2.3.2 ~~(ii)~~ Radiant heat/exposure time. A radiant heat of 5 kw/m² for 40 seconds.
- 2.2.3.3 ~~(iii)~~ Lower flammability limit. A lower flammability limit as provided in NFPA documents or other generally recognized sources ~~as approved by the District after consultation with the LEPC~~.
- 2.2.4 ~~(b)~~ Wind speed/atmospheric stability class. For the worst-case release analysis, the owner or operator shall use a wind speed of 1.5 meters per second and F atmospheric stability class. If the owner or operator can demonstrate that local meteorological data applicable to the stationary source show a higher minimum wind speed or less stable atmosphere at all times during the previous three years, these minimums may be used. For analysis of alternative scenarios, the owner or operator ~~shall~~may use ~~a wind speed of 4.6 meters per second and D atmospheric stability class unless a different wind speed or atmospheric stability class is approved by the District after consultation with the LEPC~~the typical meteorological conditions for the stationary source.
- 2.2.5 ~~(e)~~ Ambient temperature/humidity. For worst-case release analysis of a regulated toxic substance, the owner or operator shall use ~~98°F~~the highest daily maximum temperature in the previous three years and ~~68% relative~~average humidity ~~unless the look-up tables contained in the~~ for the site, based on temperature/humidity data gathered at the stationary source or at a local meteorological station; an owner or operator using the RMP Offsite Consequence Analysis Guidance are used, in which case the look-up tables are based on ~~may use 25° C (77°F) and 50% relative percent humidity~~ as values for these variables. For analysis of alternative scenarios, the owner or operator ~~shall~~may use ~~57°F and 68% relative~~typical temperature/humidity unless different values are approved by data gathered at the District after consultation with the LEPCstationary source or at a local meteorological station.

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- 2.2.6 ~~(d)~~ Height of release. -The worst-case release of a regulated toxic substance shall be analyzed assuming a ground level (0 feet) release. -For an alternative scenario analysis of a regulated toxic substance, release height may be determined by the release scenario.
- 2.2.7 ~~(e)~~ Surface roughness. -The owner or operator shall use either urban ~~topography unless the use of~~ rural topography ~~is approved by the District~~, as appropriate. Urban means that there are many obstacles in the immediate area; obstacles include buildings or trees. -Rural means there are no buildings in the immediate area and the terrain is generally flat and unobstructed.
- 2.2.8 ~~(f)~~ Dense or neutrally buoyant gases. - The owner or operator shall ensure that tables or models used for dispersion analysis of regulated toxic substances appropriately account for gas density.
- 2.2.9 ~~(g)~~ Temperature of released substance. -For worst-case ~~release scenarios~~, liquids, other than gases ~~liquefied~~ liquified by refrigeration only, shall be considered to be released at the highest daily maximum temperature, based on data for the previous three years appropriate for the stationary source, or at process temperature, whichever is higher. -For alternative scenarios, substances may be considered to be released at a process or ambient temperature that is appropriate for the scenario.
- 2.3 ~~68.25~~ Worst-case release scenario analysis.
- 2.3.1 ~~(a)~~ The owner or operator shall analyze and report in the RMP:
- 2.3.1.1 ~~(1)~~ — For Program 1 processes, one worst-case release scenario for each Program 1 process, ~~and~~;
- 2.3.1.2 ~~(2)~~ — For Program 2 and 3 processes:
- 2.3.1.2.1 ~~(i)~~ One worst-case release scenario that is estimated to create the greatest distance in any direction to an endpoint provided in Appendix appendix A of this ~~Part~~ regulation resulting from an accidental release of regulated toxic substances from covered processes under worst-case conditions defined in §68.22, section 2.2;
- 2.3.1.2.2 ~~(ii)~~ One worst-case release scenario that is estimated to create the greatest distance in any direction to an endpoint defined in §68.22(a) section 2.2.1 resulting from an accidental release of regulated flammable substances from covered processes under worst-case conditions defined in §68.22, section 2.2; and
- 2.3.1.2.3 ~~(iii)~~ Additional worst-case release scenarios for a hazard class if a worst-case release from another covered process at the stationary source potentially affects public receptors different from those potentially affected by the worst-case release scenario developed under paragraphs ~~(a)(2)(i)~~ 3.1.2.1 or ~~(a)(2)(ii)~~ 3.1.2.2 of this section.
- 2.3.2 ~~(b)~~ *Determination of worst-case release quantity.* -The worst-case release quantity shall be the greater of the following:
- 2.3.2.1 ~~(1)~~ — For substances in a vessel, the greatest amount held in a single vessel, taking into account administrative controls that limit the maximum quantity; or
- 2.3.2.2 ~~(2)~~ — For substances in pipes, the greatest amount in a pipe, taking into account administrative controls that limit the maximum quantity.
- 2.3.3 ~~(c)~~ *Worst-case release scenario — toxic gases.*

- 2.3.3.1 ~~(1)~~—For regulated toxic substances that are normally gases at ambient temperature and handled as a gas or as a liquid under pressure, the owner or operator shall assume that the quantity in the vessel or pipe, as determined under paragraph ~~(b)2.3.2~~ of this section, is released as a gas over 10 minutes.- The release rate shall be assumed to be the total quantity divided by 10 unless passive mitigation systems are in place.
- 2.3.3.2 ~~(2)~~—For gases handled as refrigerated liquids at ambient pressure:
- 2.3.3.2.1 ~~(i)~~—If the released substance is not contained by passive mitigation systems or if the contained pool would have a depth of 1 cm or less, the owner or operator shall assume that the substance is released as a gas in 10 minutes,~~or:~~
- 2.3.3.2.2 ~~(ii)~~—If the released substance is contained by passive mitigation systems in a pool with a depth greater than 1 cm, the owner or operator ~~shall~~may assume that the quantity in the vessel or pipe, as determined under paragraph ~~(b)2.3.2~~ of this section, is spilled instantaneously to form a liquid pool. -The volatilization rate (release rate) shall be calculated at the boiling point of the substance and at the conditions specified in paragraph ~~(d)2.3.4~~ of this section.
- 2.3.4 ~~(d) Worst-case release scenario—~~toxic liquids.
- 2.3.4.1 ~~(1)~~—For regulated toxic substances that are normally liquids at ambient temperature, the owner or operator shall assume that the quantity in the vessel or pipe, as determined under paragraph ~~(b)2.3.2~~ of this section, is spilled instantaneously to form a liquid pool.
- 2.3.4.1.1 ~~(i)~~—The surface area of the pool shall be determined by assuming that the liquid spreads to 1 centimeter deep unless passive mitigation systems are in place that serve to contain the spill and limit the surface area. -Where passive mitigation is in place, the surface area of the contained liquid shall be used to calculate the volatilization rate.
- 2.3.4.1.2 ~~(ii)~~—If the release would occur onto a surface that is not paved or smooth, the owner or operator ~~shall~~may take into account the actual surface characteristics.
- 2.3.4.2 ~~(2)~~—The volatilization rate shall account for ~~at the highest~~ the highest daily maximum temperature ~~of 98°F, occurring in the highest~~past three years, the temperature of the substance in the vessel, and the ~~highest~~ concentration of the substance if the liquid spilled is a mixture or solution.
- 2.3.4.3 ~~(3)~~—The rate of release to air shall be determined from the volatilization rate of the liquid pool. The owner or operator may use the methodology in the RMP Offsite Consequence Analysis Guidance or any other publicly available techniques that account for the modeling conditions and are recognized by industry as applicable as part of current practices. Proprietary models that account for the modeling conditions may be used provided the owner or operator allows the District access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- 2.3.5 ~~(e) Worst-case release scenario—~~flammable gases.- The owner or operator shall assume that the quantity of the substance, as determined under paragraph ~~(b)2.3.2~~ of this section and the provisions below, vaporizes resulting in a vapor cloud explosion. A yield factor of 10% percent of the available energy released in the explosion shall

- be used to determine the distance to the explosion endpoint if the model used is based on TNT-equivalent methods.
- 2.3.5.1 ~~(1)~~—For regulated flammable substances that are normally gases at ambient temperature and handled as a gas or as a liquid under pressure, the owner or operator shall assume that the quantity in the vessel or pipe, as determined under paragraph ~~(b)~~2.3.2 of this section, is released as a gas over 10 minutes.- The total quantity shall be assumed to be involved in the vapor cloud explosion.
- 2.3.5.2 ~~(2)~~—For flammable gases handled as refrigerated liquids at ambient pressure:
- 2.3.5.2.1 ~~(i)~~—If the released substance is not contained by passive mitigation systems or if the contained pool would have a depth of ~~1~~one centimeter or less, the owner or operator shall assume that the total quantity of the substance is released as a gas in 10 minutes, and the total quantity will be involved in the vapor cloud explosion.
- 2.3.5.2.2 ~~(ii)~~—If the released substance is contained by passive mitigation systems in a pool with a depth greater than 1 centimeter, the owner or operator may assume that the quantity in the vessel or pipe, as determined under paragraph ~~(b)~~2.3.2 of this section, is spilled instantaneously to form a liquid pool.- The volatilization rate (release rate) shall be calculated at the boiling point of the substance and at the conditions specified in paragraph ~~(d)~~2.3.4 of this section. The owner or operator shall assume that the quantity which becomes vapor in the first 10 minutes is involved in the vapor cloud explosion.
- 2.3.6 ~~(f)~~—*Worst-case release scenario—flammable liquids.*- The owner or operator shall assume that the quantity of the substance, as determined under paragraph ~~(b)~~2.3.2 of this section and the provisions below, vaporizes resulting in a vapor cloud explosion. A yield factor of ~~10%~~percent of the available energy released in the explosion shall be used to determine the distance to the explosion endpoint if the model used is based on TNT-equivalent methods.
- 2.3.6.1 ~~(1)~~—For regulated flammable substances that are normally liquids at ambient temperature, the owner or operator shall assume that the entire quantity in the vessel or pipe, as determined under paragraph ~~(b)~~2.3.2 of this section, is spilled instantaneously to form a liquid pool.- For liquids at temperatures below their atmospheric boiling point, the volatilization rate shall be calculated at the conditions specified in paragraph ~~(d)~~2.3.4 of this section.
- 2.3.6.2 ~~(2)~~—The owner or operator shall assume that the quantity which becomes vapor in the first 10 minutes is involved in the vapor cloud explosion.
- 2.3.7 ~~(g)~~—*Parameters to be applied.* -The owner or operator shall use the parameters defined in ~~§68.22~~section 2.2 to determine distance to the endpoints. The owner or operator may use the methodology provided in the RMP Offsite Consequence Analysis Guidance or any commercially or publicly available air dispersion modeling techniques, provided the techniques account for the modeling conditions and are recognized by industry as applicable as part of current practices. Proprietary models that account for the modeling conditions may be used provided the owner or operator allows the District access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- 2.3.8 ~~(h)~~—*Consideration of passive mitigation.* -Passive mitigation systems may be considered for the analysis of ~~a~~worst-case~~-scenario~~ provided that the mitigation

system is capable of withstanding the release event triggering the scenario and would still function as intended.

2.3.9 ~~(i) Factors in selecting a worst-case scenario.~~ Notwithstanding the provisions of ~~paragraph (b) of this~~ section 2.3.2, the owner or operator shall select, as the worst case for flammable regulated substances or the worst case for regulated toxic substances, a scenario based on the following factors if such a scenario would result in a greater distance to an endpoint defined in ~~§68.22(a)~~ section 2.2.1 beyond the stationary source boundary than the scenario provided under paragraph ~~(b)2.3.2~~ of this section:

2.3.9.1 ~~(1)~~ — Smaller quantities handled at higher process temperature or pressure;~~;~~ and

2.3.9.2 ~~(2)~~ — Proximity to the boundary of the stationary source.

~~(j) Modeling methodology. The owner or operator shall use the methodology in the RMP Offsite Consequence Analysis Guidance. If the District, in consultation with the LEPC, determines that the RMP Offsite Consequence Analysis Guidance is not technically adequate for a specific regulated substance, then the owner or operator shall use an alternative modeling technique approved by the District after the District consults with the LEPC. Proprietary models that account for the modeling conditions shall not be approved unless the owner or operator allows the District access to the model and describes model features and differences from publicly available models to the District upon request.~~

2.4 ~~68.28~~ Alternative release scenario analysis.

2.4.1 ~~(a)~~ The number of scenarios. The owner or operator shall identify and analyze at least 1one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least 1one alternative release scenario to represent all flammable substances held in covered processes.

2.4.2 ~~(b)~~ Scenarios to consider.

2.4.2.1 ~~(1)~~ — For each scenario required under paragraph ~~(a)2.4.1~~ of this section, the owner or operator shall select a scenario:

2.4.2.1.1 ~~(i)~~ That is more likely to occur than the worst-case release scenario under ~~§68.25,section 2.3;~~ and

2.4.2.1.2 ~~(ii)~~ That will reach an endpoint offsite, unless no such scenario exists.

2.4.2.2 ~~(2)~~ — Release scenarios considered should include, but are not limited to, the following, where applicable:

2.4.2.2.1 ~~(i)~~ Transfer hose releases due to splits or sudden hose uncoupling;~~;~~

2.4.2.2.2 ~~(ii)~~ Process piping releases from failures at flanges, joints, welds, valves and valve seals, and drains or bleeds;~~;~~

2.4.2.2.3 ~~(iii)~~ Process vessel or pump releases due to cracks, seal failure, or drain, bleed, or plug failure;~~;~~

2.4.2.2.4 ~~(iv)~~ — Vessel overfilling and spill, or overpressurization and venting through relief valves or rupture disks;~~;~~ and

- 2.4.2.2.5 ~~(v)~~ Shipping container mishandling and breakage or puncturing leading to a spill.
- 2.4.3 ~~(e)~~ Parameters to be applied. -The owner or operator shall use the appropriate parameters defined in ~~§68.22~~section 2.2 to determine distance to the endpoints. The owner or operator may use either the methodology provided in the RMP Offsite Consequence Analysis Guidance or any commercially or publicly available air dispersion modeling techniques, provided the techniques account for the specified modeling conditions and are recognized by industry as applicable as part of current practices. Proprietary models that account for the modeling conditions may be used provided the owner or operator allows the District access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- 2.4.4 ~~(d)~~ Consideration of mitigation.- Active and passive mitigation systems may be considered provided they are capable of withstanding the event that triggered the release and would still be functional.
- 2.4.5 ~~(e)~~ Factors in selecting scenarios. -The owner or operator shall consider the following in selecting alternative release scenarios:
- 2.4.5.1 ~~(1)~~ —The five--year accident history provided in ~~§68.42~~section 2.9; and
- 2.4.5.2 ~~(2)~~ —Failure scenarios identified under ~~§§68.50~~section 3.1 or ~~68.67~~section 4.2.
- ~~(f) —Modeling methodology. The owner or operator shall use either the methodology in the RMP Offsite Consequence Analysis Guidance or a methodology for air dispersion modeling approved by the District after consultation with the LEPC. Proprietary models that account for the modeling conditions shall not be approved unless the owner or operator allows the District access to the model and describes model features and differences from publicly available models to the District.~~
- 2.5 ~~68.30~~ Defining offsite impacts—~~—~~population.
- 2.5.1 ~~(a)~~ The owner or operator shall estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in ~~§68.22(a)~~section 2.2.1.
- 2.5.2 ~~(b)~~ *Population to be defined.* -Population shall include residential population.- The presence of institutions (schools, hospitals, prisons), parks and recreational areas, and major commercial, office, and industrial buildings shall be noted in the RMP.
- 2.5.3 ~~(e)~~ *Data sources acceptable.* -The owner or operator ~~shall~~may use the most recent Census data, or other ~~credible~~-updated information, to estimate the population potentially affected.
- 2.5.4 ~~(d)~~ *Level of accuracy.* -Population shall be estimated to ~~a minimum of 2~~two significant digits.
- 2.6 ~~68.33~~ Defining offsite impacts—~~—~~environment.
- 2.6.1 ~~(a)~~ The owner or operator shall list in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in ~~§68.22(a)~~section 2.2.1 of this part.
- 2.6.2 ~~(b)~~ *Data sources acceptable.* -The owner or operator ~~shall, at a minimum,~~may rely on information provided on local U.S. Geological Survey maps or on any data source containing U.S.G.S. data to identify environmental receptors.

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 2.7 ~~68.36~~ Review and update.
- 2.7.1 ~~(a)~~ The owner or operator shall review and update the offsite consequence analyses at least once every ~~5~~five years.
- 2.7.2 ~~(b)~~ If changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of ~~2~~two or more, the owner or operator shall complete a revised analysis within ~~6~~six months of the change and submit a revised risk management plan as provided in ~~§68.190~~section 7.12.
- 2.8 ~~68.39~~ Documentation. The owner or operator shall maintain the following records on the offsite consequence analyses:
- 2.8.1 ~~(a)~~ For worst--case scenarios, a description of the vessel or pipeline and substance selected as worst case, assumptions and parameters used, and the rationale for selection. ~~Assumptions; assumptions~~ shall include use of any administrative controls and any passive mitigation that were assumed to limit the quantity that could be released. Documentation shall include the anticipated effect of the controls and mitigation on the release quantity and rate.;
- 2.8.2 ~~(b)~~ For alternative release scenarios, a description of the scenarios identified, assumptions and parameters used, and the rationale for the selection of specific scenarios. ~~Assumptions; assumptions~~ shall include use of any administrative controls and any mitigation that were assumed to limit the quantity that could be released. Documentation shall include the effect of the controls and mitigation on the release quantity and rate.;
- 2.8.3 ~~(c)~~ Documentation of estimated quantity released, release rate, and duration of release.;
- 2.8.4 ~~(d)~~ Methodology used to determine distance to endpoints, ~~and~~.
- 2.8.5 ~~(e)~~ Data used to estimate population and environmental receptors potentially affected.
- 2.9 ~~68.42~~ Five--year accident history.
- 2.9.1 ~~(a)~~ The owner or operator shall include in the ~~5~~five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage.
- 2.9.2 ~~(b)~~ *Data required.* For each accidental release included, the owner or operator shall report the following information:
- 2.9.2.1 ~~(1)~~ Date, time, and approximate duration of the release.;
- 2.9.2.2 ~~(2)~~ ~~Chemicals~~Chemical(s) released.;
- 2.9.2.3 ~~(3)~~ Estimated quantity released in pounds and, for mixtures containing regulated toxic substances, percentage concentration by weight of the released regulated toxic substance in the liquid mixture.;
- 2.9.2.4 ~~(4)~~ Five- or six-digit NAICS code that most closely corresponds to the process.;
- 2.9.2.5 ~~(5)~~ The type of release event and its source.;
- 2.9.2.6 ~~(6)~~ Weather conditions, if known.;
- 2.9.2.7 ~~(7)~~ On--site impacts.;
- 2.9.2.8 ~~(8)~~ Known offsite impacts.;
- 2.9.2.9 ~~(9)~~ Initiating event and contributing factors if known.;
- 2.9.2.10 ~~(10)~~ Whether offsite responders were notified if known.;

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 2.9.2.11 ~~(11)~~—Operational or process changes that resulted from investigation of the release and that have been made by the time this information is submitted in accordance with section 7.7.
- 2.9.3 ~~(e)~~ *Level of accuracy.* -Numerical estimates ~~shall~~may be provided to ~~a minimum of~~ two significant digits.

SECTION 3 — ~~Subpart C~~—Program 2 Prevention Program

3.1 ~~68.48~~ Safety information.

- 3.1.1 ~~(a)~~ The owner or operator shall compile and maintain the following up-~~to~~-date safety information related to the regulated substances, processes, and equipment:
- 3.1.1.1 ~~(1)~~—~~Material~~ Safety Data Sheets (SDS) that meet the requirements of 29 CFR §1910.1200(g) ~~(1997)~~;
- 3.1.1.2 ~~(2)~~—Maximum intended inventory of equipment in which the regulated substances are stored or processed~~;~~
- 3.1.1.3 ~~(3)~~—Safe upper and lower temperatures, pressures, flows, and compositions~~;~~
- 3.1.1.4 ~~(4)~~—Equipment specifications~~;~~ and
- 3.1.1.5 ~~(5)~~—Codes and standards used to design, build, and operate the process.
- 3.1.2 ~~(b)~~ The owner or operator shall ensure that the process is designed in compliance with recognized and generally accepted good engineering practices. ~~Compliance with Federal or state regulations that address industry-specific safe design or with industry-specific design codes and standards may be used to demonstrate compliance with this paragraph.~~
- 3.1.3 ~~(e)~~ The owner or operator shall update the safety information if a major change occurs that makes the information inaccurate.

3.2 ~~68.50~~ Hazard review.

- 3.2.1 ~~(a)~~ The owner or operator shall conduct a review of the hazards associated with the regulated substances, process, and procedures. ~~The review shall identify the following:~~
- 3.2.1.1 ~~(1)~~—The hazards associated with the process and regulated substances~~;~~
- 3.2.1.2 ~~(2)~~—Opportunities for equipment malfunctions or human errors that could cause an accidental release, including findings from incident investigations~~;~~
- 3.2.1.3 ~~(3)~~—The safeguards used or needed to control the hazards or prevent equipment malfunction or human error~~;~~ and
- 3.2.1.4 ~~(4)~~—Any steps used or needed to detect or monitor releases.
- 3.2.2 ~~(b)~~ The owner or operator may use checklists developed by persons or organizations knowledgeable about the process and equipment as a guide to conducting the review. For processes designed to meet industry standards or Federal or state design rules, the hazard review shall, by inspecting all equipment, determine whether the process is designed, fabricated, and operated in accordance with the applicable standards or rules.
- 3.2.3 ~~(e)~~ The owner or operator shall document the results of the review and ensure that problems identified are resolved in a timely manner.
- 3.2.4 ~~(d)~~ The review shall be updated at least once every five years. ~~The owner or operator shall also conduct reviews whenever a major change in the process occurs; all issues identified in the review shall be resolved before startup of the changed process.~~

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

3.3 ~~68.52~~ Operating procedures.

- 3.3.1 ~~(a)~~ The owner or operator shall prepare written operating procedures that provide clear instructions or steps for safely conducting activities associated with each covered process consistent with the safety information for that process. ~~Operating procedures or instructions provided by equipment manufacturers or developed by persons or organizations knowledgeable about the process and equipment may be used as a basis for a stationary source's operating procedures.~~
- 3.3.2 ~~(b)~~ The procedures shall address the following:
- 3.3.2.1 ~~(1)~~ Initial startup;₂
- 3.3.2.2 ~~(2)~~ Normal operations;₂
- 3.3.2.3 ~~(3)~~ Temporary operations;₂
- 3.3.2.4 ~~(4)~~ Emergency shutdown and operations;₂
- 3.3.2.5 ~~(5)~~ Normal shutdown;₂
- 3.3.2.6 ~~(6)~~ Startup following a normal or emergency shutdown or a major change that requires a hazard review;₂
- 3.3.2.7 ~~(7)~~ Consequences of deviations and steps required to correct or avoid deviations;₂ and
- 3.3.2.8 ~~(8)~~ Equipment inspections.
- 3.3.3 ~~(e)~~ The owner or operator shall ensure that the operating procedures are updated, if necessary, whenever a major change occurs and prior to startup of the changed process.

3.4 ~~68.54~~ Training.

- 3.4.1 ~~(a)~~ The owner or operator shall ensure that each employee presently involved in operating a process, and each employee newly assigned to a covered process, ~~has~~ have been trained or ~~passed a test to demonstrate competence~~ tested competent in the operating procedures provided in ~~§68.52~~ section 3.3 that pertain to ~~the~~ employee's ~~their~~ duties. ~~For an employee~~ those employees already operating a process on June 21, 1999, the owner or operator may certify in writing that the employee has the required knowledge, skills, and abilities to safely carry out the duties and responsibilities as provided in the operating procedures.
- 3.4.2 ~~(b)~~ Refresher training. Refresher training shall be provided at least every ~~3~~ three years, and more often if necessary, to each employee involved in operating a process to ensure that the employee understands and adheres to the current operating procedures of the process. The owner or operator, in consultation with the employees operating the process, shall determine the appropriate frequency of refresher training.
- 3.4.3 ~~(c)~~ The owner or operator may use training conducted under Federal or state regulations or under industry-~~s~~ specific standards or codes or training conducted by covered process equipment vendors to demonstrate compliance with this section to the extent that the training meets the requirements of this section.
- 3.4.4 ~~(d)~~ The owner or operator shall ensure that ~~operators~~ employees involved in operating a process are trained in any updated or new procedures prior to startup of a process after a major change.
- 3.4.5 ~~68.56~~ For the purposes of this section, the term "employee" also includes supervisors responsible for directing process operations.

3.5 Maintenance.

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 3.5.1 ~~(a)~~ The owner or operator shall prepare and implement procedures to maintain the on-going mechanical integrity of the process equipment. - The owner or operator may use procedures or instructions provided by covered process equipment vendors or procedures in Federal or state regulations or industry codes as the basis for stationary source maintenance procedures.
- 3.5.2 ~~(b)~~ The owner or operator shall train or cause to be trained each employee involved in maintaining the on-going mechanical integrity of the process. - To ensure that the employee can perform the job tasks in a safe manner, each such employee shall be trained in the hazards of the process, in how to avoid or correct unsafe conditions, and in the procedures applicable to the employee's job tasks.
- 3.5.3 ~~(c)~~ Any maintenance contractor shall ensure that each contract maintenance employee is trained to perform the maintenance procedures developed under paragraph ~~(a)~~3.5.1 of this section.
- 3.5.4 ~~(d)~~ The owner or operator shall perform or cause to be performed inspections and tests on process equipment. -Inspection and testing procedures shall follow recognized and generally accepted good engineering practices. -The frequency of inspections and tests of process equipment shall be consistent with applicable manufacturers' recommendations, industry standards or codes, good engineering practices, and prior operating experience.
- 3.6 ~~68.58~~ Compliance audits.
- 3.6.1 ~~(a)~~ The owner or operator shall certify that ~~the owner or operator has they have~~ evaluated compliance with the provisions of this ~~subpart~~section for each covered process, at least every ~~3~~three years to verify that the procedures and practices developed under the ~~rule~~regulation are adequate and are being followed. When required as set forth in paragraph 3.6.5 of this section, the compliance audit shall be a third-party audit.
- 3.6.2 ~~(b)~~ The compliance audit shall be conducted by at least one person knowledgeable in the process.
- 3.6.3 ~~(c)~~ The owner or operator shall develop a report of the audit findings.
- ~~(d) The owner or operator shall promptly determine and document an appropriate response to each of the findings of the compliance audit and document that deficiencies have been corrected.~~
- 3.6.4 ~~(e)~~ The owner or operator shall retain the two (2) most recent compliance audit reports. This requirement does not apply to any compliance audit report that is more than 5~~five~~ years old.
- 3.6.5 ~~68.60~~ Third-party audit applicability. The next required compliance audit shall be a third-party audit when one of the following conditions apply:
- 3.6.5.1 An accidental release meeting the criteria in §2.9.1 from a covered process at a stationary source in NAICS 322, 324, and 325 has occurred; or
- 3.6.5.2 The District requires a third-party audit due to conditions at the stationary source that could lead to an accidental release of a regulated substance, or when a

previous third-party audit failed to meet the competency or independence criteria of §3.7.3.

3.6.6 District notification and appeals.

3.6.6.1 If the District makes a preliminary determination that a third-party audit is necessary pursuant to paragraph 3.6.6.2 of this section, the District will provide written notice to the owner or operator that describes the basis for this determination.

3.6.6.2 Within 30 days of receipt of such written notice, the owner or operator may provide information and data to, and may consult with, the District on the determination. Thereafter, the District will provide a final determination to the owner or operator.

3.6.6.3 If the final determination requires a third-party audit, the owner or operator shall comply with the requirements of §3.7, pursuant to the schedule in paragraph 3.6.8 of this section.

3.6.6.4 Appeals. The owner or operator may appeal a final determination made by an District under paragraph 3.6.7.2 of this section within 30 days of receipt of the final determination. The appeal shall be made to the director of the District. The appeal shall contain a clear and concise statement of the issues, facts in the case, and any relevant additional information. In reviewing the appeal, the District may request additional information from the owner or operator. The District will provide a written, final decision on the appeal to the owner or operator.

3.6.7 Schedule for conducting a third-party audit. The audit and audit report shall be completed as follows, unless a different timeframe is specified by the District:

3.6.7.1 For third-party audits required pursuant to paragraph 3.6.6.1 of this section, within 12 months of the release; or

3.6.7.2 For third-party audits required pursuant to paragraph 3.6.6.2 of this section, within 12 months of the date of the final determination pursuant to paragraph 3.6.7.3 of this section. However, if the final determination is appealed pursuant to paragraph 3.6.7.4 of this section, within 12 months of the date of the final decision on the appeal.

3.7 Third-party audits.

3.7.1 Applicability. The owner or operator shall engage a third-party to conduct an audit that evaluates compliance with the provisions of this section in accordance with the requirements of this section when either criterion of §3.6.5 is met.

3.7.2 Third-party auditors and auditing teams. The owner or operator shall either:

3.7.2.1 Engage a third-party auditor meeting all of the competency and independence criteria in paragraph 3.7.3 of this section; or

3.7.2.2 Assemble an auditing team, led by a third-party auditor meeting all of the competency and independence criteria in paragraph 3.7.3 of this section. The team may include:

3.7.2.2.1 Other employees of the third-party auditor firm meeting the independence criteria of paragraph 3.7.3.2 of this section; and

3.7.2.2.2 Other personnel not employed by the third-party auditor firm, including facility personnel.

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 3.7.3 Third-party auditor qualifications. The owner or operator shall determine and document that the third-party auditor(s) meet the following competency and independence requirements:
- 3.7.3.1 Competency requirements. The third-party auditor(s) shall be:
- 3.7.3.1.1 Knowledgeable with the requirements of this part;
- 3.7.3.1.2 Experienced with the stationary source type and processes being audited and applicable recognized and generally accepted good engineering practices; and
- 3.7.3.1.3 Trained and/or certified in proper auditing techniques.
- 3.7.3.2 Independence requirements. The third-party auditor(s) shall:
- 3.7.3.2.1 Act impartially when performing all activities under this section;
- 3.7.3.2.2 Receive no financial benefit from the outcome of the audit, apart from payment for auditing services. For purposes of this paragraph, retired employees who otherwise satisfy the third-party auditor independence criteria in this section may qualify as independent if their sole continuing financial attachments to the owner or operator are employer-financed or managed retirement and/or health plans;
- 3.7.3.2.3 Not have conducted past research, development, design, construction services, or consulting for the owner or operator within the last two years. For purposes of this requirement, consulting does not include performing or participating in third-party audits pursuant to §3.7 or §4.9. An audit firm with personnel who, before working for the auditor, conducted research, development, design, construction, or consulting services for the owner or operator within the last two years as an employee or contractor may meet the requirements of this subsection by ensuring such personnel do not participate in the audit, or manage or advise the audit team concerning the audit;
- 3.7.3.2.4 Not provide other business or consulting services to the owner or operator, including advice or assistance to implement the findings or recommendations in an audit report, for a period of at least two years following submission of the final audit report;
- 3.7.3.2.5 Ensure that all third-party personnel involved in the audit sign and date a conflict of interest statement documenting that they meet the independence criteria of this paragraph; and
- 3.7.3.2.6 Ensure that all third-party personnel involved in the audit do not accept future employment with the owner or operator of the stationary source for a period of at least two years following submission of the final audit report. For purposes of this requirement, employment does not include performing or participating in third-party audits pursuant to §3.7 or §4.9.
- 3.7.3.3 The auditor shall have written policies and procedures to ensure that all personnel comply with the competency and independence requirements of this section.
- 3.7.4 Third-party auditor responsibilities. The owner or operator shall ensure that the third-party auditor:
- 3.7.4.1 Manages the audit and participates in audit initiation, design, implementation, and reporting;
- 3.7.4.2 Determines appropriate roles and responsibilities for the audit team members based on the qualifications of each team member;

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- 3.7.4.3 Prepares the audit report and where there is a team, documents the full audit team's views in the final audit report;
- 3.7.4.4 Certifies the final audit report and its contents as meeting the requirements of this section; and
- 3.7.4.5 Provides a copy of the audit report to the owner or operator.
- 3.7.5 *Audit report.* The audit report shall:
 - 3.7.5.1 Identify all persons participating on the audit team, including names, titles, employers and/or affiliations, and summaries of qualifications. For third-party auditors, include information demonstrating that the competency requirements in paragraph 3.7.3.1 of this section are met;
 - 3.7.5.2 Describe or incorporate by reference the policies and procedures required under paragraph 3.7.3.3 of this section;
 - 3.7.5.3 Document the auditor's evaluation, for each covered process, of the owner or operator's compliance with the provisions of this section to determine whether the procedures and practices developed by the owner or operator under this regulation are adequate and being followed;
 - 3.7.5.4 Document the findings of the audit, including any identified compliance or performance deficiencies;
 - 3.7.5.5 Summarize any significant revisions (if any) between draft and final versions of the report; and
 - 3.7.5.6 Include the following certification, signed and dated by the third-party auditor or third-party audit team member leading the audit:

I certify that this RMP compliance audit report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information upon which the audit is based. I further certify that the audit was conducted and this report was prepared pursuant to the requirements of LMAPCD Regulation 5.15, section 3 and all other applicable auditing, competency, independence, impartiality, and conflict of interest standards and protocols. Based on my personal knowledge and experience, and inquiry of personnel involved in the audit, the information submitted herein is true, accurate, and complete.

3.7.6 *Third-party audit findings—*

- 3.7.6.1 *Findings response report.* As soon as possible, but no later than 90 days after receiving the final audit report, the owner or operator shall determine an appropriate response to each of the findings in the audit report, and develop a findings response report that includes:
 - 3.7.6.1.1 A copy of the final audit report;
 - 3.7.6.1.2 An appropriate response to each of the audit report findings;
 - 3.7.6.1.3 A schedule for promptly addressing deficiencies; and
 - 3.7.6.1.4 A certification, signed and dated by a senior corporate officer, or an official in an equivalent position, of the owner or operator of the stationary source, stating:

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I certify under penalty of law that I have engaged a third-party to perform or lead an audit team to conduct a third-party audit in accordance with the requirements of 40 CFR 3.7 and that the attached RMP compliance audit report was received, reviewed, and responded to under my direction or supervision by qualified personnel. I further certify that appropriate responses to the findings have been identified and deficiencies were corrected, or are being corrected, consistent with the requirements of LMAPCD Regulation 5.15, section 3, as documented herein. Based on my personal knowledge and experience, or inquiry of personnel involved in evaluating the report findings and determining appropriate responses to the findings, the information submitted herein is true, accurate, and complete. I am aware that there are significant penalties for making false material statements, representations, or certifications, including the possibility of fines and imprisonment for knowing violations.

3.7.6.2 Schedule implementation. The owner or operator shall implement the schedule to address deficiencies identified in the audit findings response report in paragraph 3.7.6.1.3 of this section and document the action taken to address each deficiency, along with the date completed.

3.7.6.3 Submission to Board of Directors. The owner or operator shall immediately provide a copy of each document required under paragraphs 3.7.6.1 and 3.7.6.2 of this section, when completed, to the owner or operator's audit committee of the Board of Directors, or other comparable committee or individual, if applicable.

3.7.7 Recordkeeping. The owner or operator shall retain at the stationary source, the two most recent final third-party audit reports, related findings response reports, documentation of actions taken to address deficiencies, and related records. This requirement does not apply to any document that is more than five years old.

3.7.3.8 Incident investigation.

3.8.1 (a) The owner or operator shall investigate each incident ~~which resulted in, or could that:~~

3.8.1.1 Resulted in a catastrophic release (including when the affected process is decommissioned or destroyed following, or as the result of, an incident); or

~~3.7.1.1~~3.8.1.2 Could reasonably have resulted in, a catastrophic release ~~of (i.e., was a regulated substance-near miss).~~

~~3.7.23~~3.8.2 (b) An incident investigation shall be initiated as promptly as possible, but not later than 48 hours following the incident.

~~(c) Unless a longer period is approved by the District for just cause, the incident investigation shall be concluded within 20 working days.~~

3.7.33.8.3 (d) An incident investigation team shall be established and consist of at least ~~4~~one person knowledgeable in the process involved, ~~including a contract employee if the incident involved work of the contractor,~~ and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident.

3.7.43.8.4 (e) ~~Unless a longer period is approved by the District for just cause, an incident investigation~~A report shall be prepared ~~within 10 working days of~~at the conclusion of the investigation ~~which includes at a minimum.~~ The report shall be

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- completed within 12 months of the incident, unless the District approves, in writing, an extension of time. The report shall include:
- ~~3.7.4.1~~3.8.4.1 (1) —Date, time, and location of incident;
- ~~3.7.4.2~~3.8.4.2 (2) —Date investigation began;
- ~~3.7.4.3~~3.8.4.3 (3) —A description of the incident, in chronological order, providing all relevant facts;
- ~~(4) —The factors that contributed to the incident, and~~
- ~~3.8.4.4~~ (5) —The name and amount of the regulated substance involved in the release (e.g., fire, explosion, toxic gas loss of containment) or near miss and the duration of the event;
- ~~3.8.4.5~~ The consequences, if any, of the incident including, but not limited to: injuries, fatalities, the number of people evacuated, the number of people sheltered in place, and the impact on the environment;
- ~~3.8.4.6~~ Emergency response actions taken;
- ~~3.8.4.7~~ The factors that contributed to the incident. For a covered process at a stationary source in NAICS 322, 324, and 325 this shall include the initiating event, direct and indirect contributing factors, and root causes. Root causes shall be determined by conducting an analysis for each incident using a recognized method; and
- ~~3.7.4.4~~3.8.4.8 Any recommendations resulting from the investigation and a schedule for addressing them.
- ~~(f) —If an incident meets the requirements to be included in the 5-year accident history pursuant to §68.42 (a), then the incident investigation report shall be submitted to the District within 3 working days of its completion.~~
- ~~3.7.5~~3.8.5 (g) The owner or operator shall promptly address and resolve the investigation findings and recommendations. If it will take longer than 60 calendar days from the completion of the incident investigation report to complete the action items resulting from the investigation findings and recommendations, then the owner or operator shall submit a plan and schedule by the 60th day to the District for those action items. Resolutions and corrective actions shall be documented.
- ~~3.7.6~~3.8.6 (h) The incident investigation findings and recommendations shall be reviewed with all affected personnel, including contract employees, whose job tasks are affected by the incident investigation findings and recommendations.
- ~~3.7.7~~3.8.7 (i) The incident investigation reports shall be retained by the owner or operator for five years.

SECTION 4 — ~~Subpart D~~ — Program 3 Prevention Program

- 4.1 ~~68.65~~ Process safety information.
- 4.1.1 (a) ~~In accordance with the schedule set forth in §68.67, the~~The owner or operator shall complete a compilation of written process safety information before conducting any process hazard analysis required by the ~~rule, regulation,~~ and shall keep process

- safety information up-to-date. The compilation of written process safety information is to enable the owner or operator and the employees involved in operating the process to identify and understand the hazards posed by those processes involving regulated substances. -This process safety information shall include information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process.
- 4.1.2 ~~(b)~~ Information pertaining to the hazards of the regulated substances in the process. This information shall consist of at least the following:
- 4.1.2.1 ~~(1)~~ — Toxicity information;₂
- 4.1.2.2 ~~(2)~~ — Permissible exposure limits;₂
- 4.1.2.3 ~~(3)~~ — Physical data;₂
- 4.1.2.4 ~~(4)~~ — Reactivity data;₂
- 4.1.2.5 ~~(5)~~ — Corrosivity data;₂
- 4.1.2.6 ~~(6)~~ — Thermal and chemical stability data;₂ and
- 4.1.2.7 ~~(7)~~ — Hazardous effects of inadvertent mixing of different materials that could foreseeably occur.

NOTE TO PARAGRAPH ~~(b)~~: ~~Material~~ 4.1.2: Safety Data Sheets (SDS) meeting the requirements of 29 CFR §1910.1200(g) (1997) may be used to comply with this requirement to the extent they contain the information required by paragraph 4.1.2 of this subparagraph section.

- 4.1.3 ~~(c)~~ Information pertaining to the technology of the process.
- 4.1.3.1 ~~(1)~~ — Information concerning the technology of the process shall include at least the following:
- 4.1.3.1.1 ~~(i)~~ — A block flow diagram or simplified process flow diagram;₂
- 4.1.3.1.2 ~~(ii)~~ — Process chemistry;₂
- 4.1.3.1.3 ~~(iii)~~ — Maximum intended inventory;₂
- 4.1.3.1.4 ~~(iv)~~ — Safe upper and lower limits for such items as temperatures, pressures, flows or compositions;₂ and₂
- 4.1.3.1.5 ~~(v)~~ — An evaluation of the consequences of deviations.
- 4.1.3.2 ~~(2)~~ — Where the original technical information no longer exists, such information may be developed in conjunction with the process hazard analysis in sufficient detail to support the analysis.
- 4.1.4 ~~(d)~~ Information pertaining to the equipment in the process.
- 4.1.4.1 ~~(1)~~ — Information pertaining to the equipment in the process shall include:
- 4.1.4.1.1 ~~(i)~~ — Materials of construction;₂
- 4.1.4.1.2 ~~(ii)~~ — Piping and instrument diagrams (P&ID's);₂
- 4.1.4.1.3 ~~(iii)~~ — Electrical classification;₂
- 4.1.4.1.4 ~~(iv)~~ — Relief system design and design basis;₂
- 4.1.4.1.5 ~~(v)~~ — Ventilation system design;₂
- 4.1.4.1.6 ~~(vi)~~ — Design codes and standards employed;₂
- 4.1.4.1.7 ~~(vii)~~ — Material and energy balances for processes built after June 21, 1999;₂ and
- 4.1.4.1.8 ~~(viii)~~ — Safety systems (e.g.₂ interlocks, detection or suppression systems).

- 4.1.4.2 ~~(2)~~—The owner or operator shall document that equipment complies with recognized and generally accepted good engineering practices.
- 4.1.4.3 ~~(3)~~—For existing equipment designed and constructed in accordance with codes, standards, or practices that are no longer in general use, the owner or operator shall determine and document that the equipment is designed, maintained, inspected, tested, and operating in a safe manner.
- 4.2 ~~68.67~~—Process hazard analysis.
- 4.2.1 ~~(a)~~—The owner or operator shall perform an initial process hazard analysis (hazard evaluation) on processes covered by this ~~Part-~~part. The process hazard analysis shall be appropriate to the complexity of the process and shall identify, evaluate, and control the hazards involved in the process. ~~-The owner or operator shall determine and document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. -The process hazard analysis shall be conducted as soon as possible, but not later than June 21, 1999. -Process hazards analyses completed to comply with 29 CFR §1910.119(e) (~~1997~~) are acceptable as initial process hazards analyses. - These process hazard analyses shall be updated and revalidated, based on their completion date.~~
- 4.2.2 ~~(b)~~—The owner or operator shall use one or more of the following methodologies that are appropriate to determine and evaluate the hazards of the process being analyzed~~;~~:
- 4.2.2.1 ~~(1)~~—What-If~~;~~:
- 4.2.2.2 ~~(2)~~—Checklist~~;~~:
- 4.2.2.3 ~~(3)~~—What-If/Checklist~~;~~:
- 4.2.2.4 ~~(4)~~—Hazard and Operability Study (HAZOP)~~;~~:
- 4.2.2.5 ~~(5)~~—Failure Mode and Effects Analysis (FMEA)~~;~~:
- 4.2.2.6 ~~(6)~~—Fault Tree Analysis~~;~~ or
- 4.2.2.7 ~~(7)~~—An appropriate equivalent methodology.
- 4.2.3 ~~(e)~~—The process hazard analysis shall address:
- 4.2.3.1 ~~(1)~~—The hazards of the process~~;~~:
- 4.2.3.2 ~~(2)~~—The identification of any previous findings from all incident which had a likely investigations required under §4.10, as well as any other potential for catastrophic consequences, failure scenarios~~;~~:
- 4.2.3.3 ~~(3)~~—Engineering and administrative controls applicable to the hazards and their interrelationships such as appropriate application of detection methodologies to provide early warning of releases. ~~-(Acceptable detection methods might include process monitoring and control instrumentation with alarms, and detection hardware such as hydrocarbon sensors-);~~:
- 4.2.3.4 ~~(4)~~—Consequences of failure of engineering and administrative controls~~;~~:
- 4.2.3.5 ~~(5)~~—Stationary source siting~~;~~:
- 4.2.3.6 ~~(6)~~—Human factors~~;~~ and:
- 4.2.3.7 ~~(7)~~—A qualitative evaluation of a range of the possible safety and health effects of failure of controls~~;~~ and

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- 4.2.3.8 ~~(d)~~—For new processes in NAICS 322, 324, and 325, safer technology and alternative risk management measures applicable to eliminating or reducing risk from process hazards.
- 4.2.3.8.1 The owner or operator shall consider, in the following order of preference inherently safer technology or design, passive measures, active measures, and procedural measures. A combination of risk management measures may be used to achieve the desired risk reduction.
- 4.2.3.8.2 The owner or operator shall determine the practicability of the inherently safer technologies and designs considered.
- 4.2.4 The process hazard analysis shall be performed by a team with expertise in engineering and process operations. ~~The, and the~~ team shall include at least ~~one~~ employee who has experience and knowledge specific to the process being evaluated. Also, ~~one~~ member of the team must be knowledgeable in the specific process hazard analysis methodology being used.
- 4.2.5 ~~(e)~~—The owner or operator shall establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; ~~and~~ communicate the actions to operating, maintenance, and other employees whose work assignments are in the process and who may be affected by the recommendations or actions.
- 4.2.6 ~~(f)~~—At least every five (5) years after the completion of the initial process hazard analysis, the process hazard analysis shall be updated and revalidated by a team meeting the requirements in paragraph ~~(d)~~4.2.4 of this section, to assure that the process hazard analysis is consistent with the current process. ~~Updated and revalidated process hazard analyses completed to comply with 29 CFR §1910.119(e) (1997) are acceptable to meet the requirements of this paragraph.~~
- 4.2.7 ~~(g)~~—The owner or operator shall retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in paragraph 4.2.5 of this section for the life of the process.

~~resolution of recommendations described in paragraph (e) of this section for the life~~
~~of the process.~~

- 4.3 ~~68.69~~—Operating procedures.
- 4.3.1 ~~(a)~~—The owner or operator shall develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information and shall address at least the following elements.
- 4.3.1.1 ~~(i)~~—Steps for each operating phase:
- 4.3.1.1.1 ~~(i)~~—Initial startup;₂
- 4.3.1.1.2 ~~(ii)~~—Normal operations;₂
- 4.3.1.1.3 ~~(iii)~~—Temporary operations;₂
- 4.3.1.1.4 ~~(iv)~~—Emergency shutdown including the conditions under which emergency shutdown is required, and the assignment of shutdown responsibility to

- qualified operators to ensure that emergency shutdown is executed in a safe and timely manner₂.
- 4.3.1.1.5 ~~(v)~~ Emergency operations₂;
- 4.3.1.1.6 ~~(vi)~~ Normal shutdown₂ and₂
- 4.3.1.1.7 ~~(vii)~~ Startup following a turnaround, or after an emergency shutdown.
- 4.3.1.2 ~~(2)~~ Operating limits:
- 4.3.1.2.1 ~~(i)~~ Consequences of deviation₂ and
- 4.3.1.2.2 ~~(ii)~~ Steps required to correct or avoid deviation.
- 4.3.1.3 ~~(3)~~ Safety and health considerations:
- 4.3.1.3.1 ~~(i)~~ Properties of, and hazards presented by, the chemicals used in the process₂;
- 4.3.1.3.2 ~~(ii)~~ Precautions necessary to prevent exposure, including engineering controls, administrative controls, and personal protective equipment₂;
- 4.3.1.3.3 ~~(iii)~~ Control measures to be taken if physical contact or airborne exposure occurs₂;
- 4.3.1.3.4 ~~(iv)~~ Quality control for raw materials and control of hazardous chemical inventory levels₂ and₂
- 4.3.1.3.5 ~~(v)~~ Any special or unique hazards.
- 4.3.1.4 ~~(4)~~ Safety systems and their functions.
- 4.3.2 ~~(b)~~ Operating procedures shall be readily accessible to employees who work in or maintain a process.
- 4.3.3 ~~(e)~~ The operating procedures shall be reviewed as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment₂ and changes to stationary sources. The owner or operator shall certify annually that these operating procedures are current and accurate.
- 4.3.4 ~~(d)~~ The owner or operator shall develop and implement safe work practices to provide for the control of hazards during operations such as lockout/tagout; confined space entry; opening process equipment or piping; and control over entrance into a stationary source by maintenance, contractor, laboratory, or other support personnel. These safe work practices shall apply to employees and contractor employees.
- 4.4 ~~68.71~~ Training.
- 4.4.1 ~~(a)~~ Initial training.
- 4.4.1.1 ~~(1)~~ Each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, shall be trained in an overview of the process and in the operating procedures as specified in ~~§68.69-4.3~~. The training shall include emphasis on the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks.
- 4.4.1.2 ~~(2)~~ In lieu of initial training for ~~an employee~~ those employees already involved in operating a process on June 21, 1999 an owner or operator may certify in writing that the employee has the required knowledge, skills, and abilities to safely carry out the duties and responsibilities as specified in the operating procedures.
- 4.4.2 ~~(b)~~ Refresher training. Refresher training shall be provided at least every ~~3~~three years, and more often if necessary, to each employee involved in operating a process

- to assure that the employee understands and adheres to the current operating procedures of the process. -The owner or operator, in consultation with the employees involved in operating the process, shall determine the appropriate frequency of refresher training.
- 4.4.3 ~~(e)~~ *Training documentation.* - The owner or operator shall ascertain that each employee involved in operating a process has received and understood the training required by this paragraph. -The owner or operator shall prepare a record which contains the identity of the employee, the date of training, and the means used to verify that the employee understood the training.
- 4.4.4 ~~68.73~~ For the purposes of this section, the term employee also includes supervisors with process operational responsibilities.
- 4.5 Mechanical integrity.
- 4.5.1 ~~(a)~~ *Application.* -Paragraphs ~~(b)~~4.5.2 through ~~(f)~~4.5.6 of this section apply to the following process equipment:
- 4.5.1.1 ~~(1)~~ — Pressure vessels and storage tanks~~;~~_;
- 4.5.1.2 ~~(2)~~ — Piping systems (including piping components such as valves~~);~~_;
- 4.5.1.3 ~~(3)~~ — Relief and vent systems and devices~~;~~_;
- 4.5.1.4 ~~(4)~~ — Emergency shutdown systems~~;~~_;
- 4.5.1.5 ~~(5)~~ — Controls (including monitoring devices and sensors, alarms, and interlocks~~);~~_; and_;
- 4.5.1.6 ~~(6)~~ — Pumps.
- 4.5.2 ~~(b)~~ *Written procedures.* -The owner or operator shall establish and implement written procedures to maintain the on-going integrity of process equipment.
- 4.5.3 ~~(e)~~ *Training for process maintenance activities.* -The owner or operator shall train each employee involved in maintaining the on-going integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner.
- 4.5.4 ~~(d)~~ *Inspection and testing.*
- 4.5.4.1 ~~(1)~~ — Inspections and tests shall be performed on process equipment.
- 4.5.4.2 ~~(2)~~ — Inspection and testing procedures shall follow recognized and generally accepted good engineering practices.
- 4.5.4.3 ~~(3)~~ — The frequency of inspections and tests of process equipment shall be consistent with applicable manufacturers' recommendations and good engineering practices_; and more frequently if determined to be necessary by prior operating experience.
- 4.5.4.4 ~~(4)~~ — The owner or operator shall document each inspection and test that has been performed on process equipment. -The documentation shall identify the date of the inspection or test, the name of the person who performed the inspection or test, the serial number or other identifier of the equipment on which the inspection or test was performed, a description of the inspection or test performed, and the results of the inspection or test.
- 4.5.5 ~~(e)~~ *Equipment deficiencies.* - The owner or operator shall correct deficiencies in equipment that are outside acceptable limits (defined by the process safety information in §~~68.654.1~~) before further use or in a safe and timely manner when necessary means are taken to assure safe operation.

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- 4.5.6 ~~(f)~~ *Quality assurance.*
- 4.5.6.1 ~~(1)~~—In the construction of new plants and equipment, the owner or operator shall assure that equipment as it is fabricated is suitable for the process application for which ~~it~~they will be used.
- 4.5.6.2 ~~(2)~~—Appropriate checks and inspections shall be performed to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions.
- 4.5.6.3 ~~(3)~~—The owner or operator shall assure that maintenance materials, spare parts, and equipment are suitable for the process application for which they will be used.
- 4.6 ~~68.75~~ Management of change.
- 4.6.1 ~~(a)~~—The owner or operator shall establish and implement written procedures to manage changes (except for “replacements in kind~~”) to process chemicals, technology, equipment, and procedures; and changes to stationary sources that affect a covered process.~~)”)
- 4.6.2 ~~(b)~~—The procedures shall assure that the following considerations are addressed prior to any change:
- 4.6.2.1 ~~(1)~~—The technical basis for the proposed change;~~;~~
- 4.6.2.2 ~~(2)~~—Impact of change on safety and health;~~;~~
- 4.6.2.3 ~~(3)~~—Modifications to operating procedures;~~;~~
- 4.6.2.4 ~~(4)~~—Necessary time period for the change;~~;~~ and~~;~~
- 4.6.2.5 ~~(5)~~—Authorization requirements for the proposed change.
- 4.6.3 ~~(e)~~—Employees involved in operating a process and maintenance and contract employees whose job tasks will be affected by a change in the process shall be informed of, and trained in, the change prior to start~~–~~up of the process or affected part of the process.
- 4.6.4 ~~(d)~~—If a change covered by this ~~section~~paragraph results in a change in the process safety information required by §~~68.654.1~~ of this ~~Part~~part, such information shall be updated accordingly.
- 4.6.5 ~~(e)~~—If a change covered by this ~~section~~paragraph results in a change in the operating procedures or practices required by §~~68.694.3~~, such procedures or practices shall be updated accordingly.
- 4.7 ~~68.77~~ Pre~~–~~startup review.
- 4.7.1 ~~(a)~~—The owner or operator shall perform a pre~~–~~startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information.
- 4.7.2 ~~(b)~~—The pre~~–~~startup safety review shall confirm that prior to the introduction of regulated substances to a process:
- 4.7.2.1 ~~(1)~~—Construction and equipment is in accordance with design specifications;~~;~~
- 4.7.2.2 ~~(2)~~—Safety, operating, maintenance, and emergency procedures are in place and are adequate;~~;~~
- 4.7.2.3 ~~(3)~~—For new stationary sources, a process hazard analysis has been performed and recommendations have been resolved or implemented before startup~~;~~ ~~Modified; and modified~~ stationary sources meet the requirements contained in §~~68.75, and~~management of change, §4.6.
- 4.7.2.4 ~~(4)~~—Training of each employee involved in operating a process has been completed.

4.8 ~~68.79~~ Compliance audits.

- 4.8.1 ~~(a)~~ The owner or operator shall certify that ~~the owner or operator has~~they have evaluated compliance with the provisions of this ~~subpart~~section for each covered process, at least every ~~3~~three years to verify that the procedures and practices developed under ~~this subpart~~the regulation are adequate and are being followed. When required as set forth in paragraph 4.8.6 of this section, the compliance audit shall be a third-party audit.
- 4.8.2 ~~(b)~~ The compliance audit shall be conducted by at least ~~1~~one person knowledgeable in the process.
- 4.8.3 ~~(c)~~ A report of the findings of the audit shall be developed.
- 4.8.4 ~~(d)~~ The owner or operator shall promptly determine and document an appropriate response to each of the findings of the compliance audit and document that deficiencies have been corrected.
- 4.8.5 ~~(e)~~ The owner or operator shall retain the two (2) most recent compliance audit reports.
- ~~4.8.6~~ ~~68.81~~ Third-party audit applicability. The next required compliance audit shall be a third-party audit when one of the following conditions apply:
- 4.8.6.1 An accidental release meeting the criteria in §2.9.1 from a covered process at a stationary source in NACIS 322, 324, or 325 has occurred; or
- 4.8.6.2 The District requires a third-party audit due to conditions at the stationary source that could lead to an accidental release of a regulated substance, or when a previous third-party audit failed to meet the competency or independence criteria of §4.9.3.
- 4.8.7 District notification and appeals.
- 4.8.7.1 If the District makes a preliminary determination that a third-party audit is necessary pursuant to paragraph 4.8.6.2 of this section, the District will provide written notice to the owner or operator that describes the basis for this determination.
- 4.8.7.2 Within 30 days of receipt of such written notice, the owner or operator may provide information and data to, and may consult with, the District on the determination. Thereafter, the District will provide a final determination to the owner or operator.
- 4.8.7.3 If the final determination requires a third-party audit, the owner or operator shall comply with the requirements of §4.9, pursuant to the schedule in paragraph 4.8.8 of this section.
- 4.8.7.4 Appeals. The owner or operator may appeal a final determination made by the District under paragraph 4.8.7.2 of this section within 30 days of receipt of the final determination. The appeal shall be made to the director of the District. The appeal shall contain a clear and concise statement of the issues, facts in the case, and any relevant additional information. In reviewing the appeal, the District may request additional information from the owner or operator. The District will provide a written, final decision on the appeal to the owner or operator.
- 4.8.8 Schedule for conducting a third-party audit. The audit and audit report shall be completed as follows, unless a different timeframe is specified by the District:

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- 4.8.8.1 For third-party audits required pursuant to paragraph 4.8.6.1 of this section, within 12 months of the release; or
- 4.8.8.2 For third-party audits required pursuant to paragraph 4.8.6.2 of this section, within 12 months of the date of the final determination pursuant to paragraph 4.8.7.3 of this section. However, if the final determination is appealed pursuant to paragraph 4.8.7.4 of this section, within 12 months of the date of the final decision on the appeal.
- 4.9 Third-party audits.
- 4.9.1 *Applicability.* The owner or operator shall engage a third-party to conduct an audit that evaluates compliance with the provisions of this section in accordance with the requirements of this section when either criterion of §4.8.6 is met.
- 4.9.2 *Third-party auditors and auditing teams.* The owner or operator shall either:
- 4.9.2.1 Engage a third-party auditor meeting all of the competency and independence criteria in paragraph 4.9.3 of this section; or
- 4.9.2.2 Assemble an auditing team, led by a third-party auditor meeting all of the competency and independence criteria in paragraph 4.9.3 of this section. The team may include:
- 4.9.2.2.1 Other employees of the third-party auditor firm meeting the independence criteria of paragraph 4.9.3.2 of this section; and
- 4.9.2.2.2 Other personnel not employed by the third-party auditor firm, including facility personnel.
- 4.9.3 *Third-party auditor qualifications.* The owner or operator shall determine and document that the third-party auditor(s) meet the following competency and independence requirements:
- 4.9.3.1 *Competency requirements.* The third-party auditor(s) shall be:
- 4.9.3.1.1 Knowledgeable with the requirements of this part;
- 4.9.3.1.2 Experienced with the stationary source type and processes being audited and applicable recognized and generally accepted good engineering practices; and
- 4.9.3.1.3 Trained or certified in proper auditing techniques.
- 4.9.3.2 *Independence requirements.* The third-party auditor(s) shall:
- 4.9.3.2.1 Act impartially when performing all activities under this section;
- 4.9.3.2.2 Receive no financial benefit from the outcome of the audit, apart from payment for auditing services. For purposes of this paragraph, retired employees who otherwise satisfy the third-party auditor independence criteria in this section may qualify as independent if their sole continuing financial attachments to the owner or operator are employer-financed or managed retirement and/or health plans;
- 4.9.3.2.3 Not have conducted past research, development, design, construction services, or consulting for the owner or operator within the last two years. For purposes of this requirement, consulting does not include performing or participating in third-party audits pursuant to §3.7 or §4.9. An audit firm with personnel who, before working for the auditor, conducted research, development, design, construction, or consulting services for the owner or operator within the last two years as an employee or contractor may meet the requirements of this subsection by ensuring such personnel do not participate in the audit, or manage or advise the audit team concerning the audit;

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- 4.9.3.2.4 Not provide other business or consulting services to the owner or operator, including advice or assistance to implement the findings or recommendations in an audit report, for a period of at least two years following submission of the final audit report;
- 4.9.3.2.5 Ensure that all third-party personnel involved in the audit sign and date a conflict of interest statement documenting that they meet the independence criteria of this paragraph; and
- 4.9.3.2.6 Ensure that all third-party personnel involved in the audit do not accept future employment with the owner or operator of the stationary source for a period of at least two years following submission of the final audit report. For purposes of this requirement, employment does not include performing or participating in third-party audits pursuant to §3.7 or §4.9.
- 4.9.3.3 The auditor shall have written policies and procedures to ensure that all personnel comply with the competency and independence requirements of this section.
- 4.9.4 *Third-party auditor responsibilities.* The owner or operator shall ensure that the third-party auditor:
 - 4.9.4.1 Manages the audit and participates in audit initiation, design, implementation, and reporting;
 - 4.9.4.2 Determines appropriate roles and responsibilities for the audit team members based on the qualifications of each team member;
 - 4.9.4.3 Prepares the audit report and where there is a team, documents the full audit team's views in the final audit report;
 - 4.9.4.4 Certifies the final audit report and its contents as meeting the requirements of this section; and
 - 4.9.4.5 Provides a copy of the audit report to the owner or operator.
- 4.9.5 *Audit report.* The audit report shall:
 - 4.9.5.1 Identify all persons participating on the audit team, including names, titles, employers and/or affiliations, and summaries of qualifications. For third-party auditors, include information demonstrating that the competency requirements in paragraph 4.9.3.1 of this section are met;
 - 4.9.5.2 Describe or incorporate by reference the policies and procedures required under paragraph 4.9.3.3 of this section;
 - 4.9.5.3 Document the auditor's evaluation, for each covered process, of the owner or operator's compliance with the provisions of this section to determine whether the procedures and practices developed by the owner or operator under this regulation are adequate and being followed;
 - 4.9.5.4 Document the findings of the audit, including any identified compliance or performance deficiencies;
 - 4.9.5.5 Summarize any significant revisions (if any) between draft and final versions of the report; and
 - 4.9.5.6 Include the following certification, signed and dated by the third-party auditor or third-party audit team member leading the audit:

I certify that this RMP compliance audit report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information upon which the audit is

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based. I further certify that the audit was conducted and this report was prepared pursuant to the requirements of LMAPCD Regulation 5.15, section 4 and all other applicable auditing, competency, independence, impartiality, and conflict of interest standards and protocols. Based on my personal knowledge and experience, and inquiry of personnel involved in the audit, the information submitted herein is true, accurate, and complete.

4.9.6 Third-party audit findings—

4.9.6.1 Findings response report. As soon as possible, but no later than 90 days after receiving the final audit report, the owner or operator shall determine an appropriate response to each of the findings in the audit report, and develop a findings response report that includes:

4.9.6.1.1 A copy of the final audit report;

4.9.6.1.2 An appropriate response to each of the audit report findings;

4.9.6.1.3 A schedule for promptly addressing deficiencies; and

4.9.6.1.4 A certification, signed and dated by a senior corporate officer, or an official in an equivalent position, of the owner or operator of the stationary source, stating:

I certify under penalty of law that I have engaged a third-party to perform or lead an audit team to conduct a third-party audit in accordance with the requirements of 40 CFR 4.9 and that the attached RMP compliance audit report was received, reviewed, and responded to under my direction or supervision by qualified personnel. I further certify that appropriate responses to the findings have been identified and deficiencies were corrected, or are being corrected, consistent with the requirements of LMAPCD Regulation 5.15, section 4, as documented herein. Based on my personal knowledge and experience, or inquiry of personnel involved in evaluating the report findings and determining appropriate responses to the findings, the information submitted herein is true, accurate, and complete. I am aware that there are significant penalties for making false material statements, representations, or certifications, including the possibility of fines and imprisonment for knowing violations.

4.9.6.2 Schedule implementation. The owner or operator shall implement the schedule to address deficiencies identified in the audit findings response report in paragraph 4.9.6.1.3 of this section and document the action taken to address each deficiency, along with the date completed.

4.9.6.3 Submission to Board of Directors. The owner or operator shall immediately provide a copy of each document required under paragraphs 4.9.6.1 and 4.9.6.2 of this section, when completed, to the owner or operator's audit committee of the Board of Directors, or other comparable committee or individual, if applicable.

4.9.7 Recordkeeping. The owner or operator shall retain at the stationary source the two most recent final third-party audit reports, related findings response reports, documentation of actions taken to address deficiencies, and related records.

4.9.10 Incident investigation.

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4.10.1 ~~(a) The owner or operator shall investigate each incident which resulted in, or could that:~~

4.10.1.1 ~~Resulted in a catastrophic release (including when the affected process is decommissioned or destroyed following, or as the result of, an incident); or~~

~~4.9.1.14.10.1.2~~Could ~~reasonably have resulted in, a catastrophic release of (i.e., was a regulated substance-near miss).~~

~~4.9.24.10.2~~(b) ~~An incident investigation shall be initiated as promptly as possible, but not later than 48 hours following the incident.~~

~~(c) Unless a longer period is approved by the District for just cause, the incident investigation shall be concluded within 20 working days.~~

~~4.9.34.10.3~~(d) ~~An incident investigation team shall be established and consist of at least 4one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident.~~

~~4.9.44.10.4~~(e) ~~Unless a longer period is approved by the District for just cause, an incident investigation~~A ~~report shall be prepared within 10 working days of at the conclusion of the investigation which includes at a minimum. The report shall be completed within 12 months of the incident, unless the District approves, in writing, an extension of time. The report shall include:~~

~~4.9.4.14.10.4.1~~(1) ~~— Date, time, and location of incident;~~

~~4.9.4.24.10.4.2~~(2) ~~— Date investigation began;~~

~~4.9.4.34.10.4.3~~(3) ~~— A description of the incident, in chronological order, providing all relevant facts;~~

~~(4) — The factors that contributed to the incident, and~~

~~4.10.4.4~~ (5) ~~— The name and amount of the regulated substance involved in the release (e.g., fire, explosion, toxic gas loss of containment) or near miss and the duration of the event;~~

~~4.10.4.5~~ ~~The consequences, if any, of the incident including, but not limited to: injuries, fatalities, the number of people evacuated, the number of people sheltered in place, and the impact on the environment;~~

~~4.10.4.6~~ ~~Emergency response actions taken;~~

~~4.10.4.7~~ ~~The factors that contributed to the incident. For a covered process at a stationary source in NAICS 322, 324, and 325 this shall include the initiating event, direct and indirect contributing factors, and root causes. Root causes shall be determined by conducting an analysis for each incident using a recognized method; and~~

~~4.9.4.44.10.4.8~~Any recommendations resulting from the investigation and a schedule for addressing them.

~~(f) — If an incident meets the requirements to be included in the 5-year accident history pursuant to §68.42(a), then the incident investigation report shall be submitted to the District within 3 working days of its completion.~~

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~~4.9.54.10.5(g)~~ The owner or operator shall establish a system to promptly address and resolve the ~~investigation incident report~~ findings and recommendations. ~~If it will take longer than 60 calendar days from the completion of the incident investigation report to complete the action items resulting from the investigation findings and recommendations, then the owner or operator shall submit a plan and schedule by the 60th day to the District for those action items.~~ Resolutions and corrective actions shall be documented.

~~4.9.64.10.6(h)~~ ~~The incident investigation findings and recommendations~~ The report shall be reviewed with all affected personnel, whose job tasks are relevant to the incident findings including contract employees, ~~whose job tasks are affected by the incident investigation findings and recommendations~~ where applicable.

~~4.9.74.10.7(i)~~ ~~The incident~~ Incident investigation ~~report~~ reports shall be retained ~~by the owner or operator~~ for five years.

~~4.104.11~~ ~~68.83~~ Employee participation.

~~4.10.14.11.1~~ (a) — The owner or operator shall develop a written plan of action regarding the implementation of the employee participation required by this section.

~~4.10.24.11.2~~ (b) — The owner or operator shall consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management in this rule ~~regulation~~.

~~4.10.34.11.3~~ (c) — The owner or operator shall provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under this Part ~~regulation~~.

~~4.114.12~~ ~~68.85~~ Hot work permit.

~~4.11.14.12.1~~ (a) — The owner or operator shall issue a hot work permit for hot work operations conducted on or near a covered process.

~~4.11.24.12.2~~ (b) — The permit shall document that the fire prevention and protection requirements in 29_CFR §1910.252(a) ~~(1997)~~ have been implemented prior to beginning the hot work operations; it shall indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. ~~The permit shall be kept on file until completion of the hot work operations.~~

~~4.124.13~~ ~~68.87~~ Contractors.

~~4.12.14.13.1~~ (a) — *Application.* - This section applies to contractors performing maintenance or repair, turnaround, major renovation, or specialty work on or adjacent to a covered process. It does not apply to contractors providing incidental services which do not influence process safety, such as janitorial work, food and drink services, laundry, delivery, or other supply services.

~~4.12.24.13.2~~ (b) — *Owner or operator responsibilities.*

~~4.12.2.14.13.2.1~~ (1) — The owner or operator, when selecting a contractor, shall obtain and evaluate information regarding the contract owner or operator's safety performance and programs.

~~4.12.2.24.13.2.2~~ (2) — The owner or operator shall inform ~~the~~ contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process.

~~4.12.2.34.13.2.3~~ (3) — The owner or operator shall explain to the contract owner or operator the applicable provisions of Subpart E of this Part ~~section 5~~.

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4.12.2.44.13.2.4 (4) — The owner or operator shall develop and implement safe work practices consistent with ~~§68.69(d)4.3.4~~, to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas.

4.12.2.54.13.2.5 (5) — The owner or operator shall periodically evaluate the performance of the contract owner or operator in fulfilling ~~the contract owner's or operator's~~ their obligations as specified in paragraph ~~(e)4.13.3~~ of this section.

4.12.34.13.3 (e) — *Contract owner or operator responsibilities.*

4.12.3.14.13.3.1 (1) — The contract owner or operator shall assure that each contract employee is trained in the work practices necessary to safely perform ~~the employee's~~ his/her job.

4.12.3.24.13.3.2 (2) — The contract owner or operator shall assure that each contract employee is instructed in the known potential fire, explosion, or toxic release hazards related to ~~the employee's~~ his/her job and the process, and the applicable provisions of the emergency action plan.

4.12.3.34.13.3.3 (3) — The contract owner or operator shall document that each contract employee has received and understood the training required by this section. -The contract owner or operator shall prepare a record which contains the identity of the contract employee, the date of training, and the means used to verify that the employee understood the training.

4.12.3.44.13.3.4 (4) — The contract owner or operator shall assure that each contract employee follows the safety rules of the stationary source including the safe work practices required by ~~§68.69(d)4.3.4~~.

4.12.3.54.13.3.5 (5) — The contract owner or operator shall advise the owner or operator of any unique hazards presented by the contract ~~owner's~~ sowner or operator's work, or of any hazards found by the contract ~~owner's~~ sowner or operator's work.

SECTION 5 — ~~Subpart E~~ — **Emergency Response**

5.1 ~~68.90~~ — Applicability.

5.1.1 ~~(a) Responding stationary source.~~ Except as provided in paragraph ~~(b)5.1.2~~ of this section, the owner or operator of a stationary source with ~~a~~ Program 2 ~~or~~ and Program 3 ~~process~~ processes shall comply with the requirements of ~~§68.95~~ sections 5.2, 5.3, and 5.4.

5.1.2 ~~(b) Non-responding stationary source.~~ The owner or operator of a stationary source whose employees will not respond to accidental releases of regulated substances need not comply with ~~§68.955.3 of this regulation~~ provided that ~~they meet the following:~~

5.1.2.1 (1) — For stationary sources with any regulated toxic substance held in a process above the threshold quantity, the stationary source is included in the community emergency response plan developed under 42 U.S.C. §11003;

5.1.2.2 (2) — For stationary sources with only regulated flammable substances held in a process above the threshold quantity, the owner or operator has coordinated response actions with the local fire department, ~~and;~~

5.1.2.3 (3) — Appropriate mechanisms are in place to notify emergency responders when there is a need for a response;

5.1.2.4 ~~68.95~~ — The owner or operator performs the annual emergency response coordination activities required under §5.2; and

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5.1.2.5 The owner or operator performs the annual notification exercises required under §5.4.1.

5.2 Emergency response coordination activities.

The owner or operator of a stationary source shall coordinate response needs with local emergency planning and response organizations to determine how the stationary source is addressed in the community emergency response plan and to ensure that local response organizations are aware of the regulated substances at the stationary source, their quantities, the risks presented by covered processes, and the resources and capabilities at the stationary source to respond to an accidental release of a regulated substance.

5.2.1 Coordination shall occur at least annually, and more frequently if necessary, to address changes: At the stationary source; in the stationary source's emergency response and/or emergency action plan; and/or in the community emergency response plan.

5.2.2 Coordination shall include providing to the local emergency planning and response organizations: The stationary source's emergency response plan if one exists; emergency action plan; updated emergency contact information; and any other information that local emergency planning and response organizations identify as relevant to local emergency response planning. For responding stationary sources, coordination shall also include consulting with local emergency response officials to establish appropriate schedules and plans for field and tabletop exercises required under §5.4.2. The owner or operator shall request an opportunity to meet with the local emergency planning committee (or equivalent) and/or local fire department as appropriate to review and discuss these materials.

5.2.3 The owner or operator shall document coordination with local authorities, including: The names of individuals involved and their contact information (phone number, email address, and organizational affiliations); dates of coordination activities; and nature of coordination activities.

5.25.3 Emergency response program.

5.2.15.3.1 (a) The owner or operator shall develop and implement an emergency response program for the purpose of protecting public health and the environment. Such program shall include the following elements:

5.2.1.15.3.1.1 (1) — An emergency response plan, which shall be maintained at the stationary source and contain at least the following elements:

5.2.1.1.15.3.1.1.1 (i) Procedures for informing the public and the appropriate Federal, state, and local emergency response agencies about accidental releases;_i

5.2.1.1.25.3.1.1.2 (ii) Documentation of proper first-aid and emergency medical treatment necessary to treat accidental human exposures;_i and

5.2.1.1.35.3.1.1.3 (iii) Procedures and measures for emergency response after an accidental release of a regulated substance;_i

5.2.1.25.3.1.2 (2) — Procedures for the use of emergency response equipment and for its inspection, testing, and maintenance;_i

5.2.1.35.3.1.3 (3) — Training for all employees in relevant procedures;_i and

5.2.1.45.3.1.4 (4) — Procedures to review and update, as appropriate, the emergency response plan to reflect changes at the stationary source and ensure that employees are informed of changes. The owner or operator shall review and update the plan as appropriate based on changes at the stationary source or new information obtained

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from coordination activities, emergency response exercises, incident investigations, or other available information, and ensure that employees are informed of the changes.

5.2.25.3.2 (b) A written plan that complies with other Federal contingency plan regulations or is consistent with the approach in the National Response Team's Integrated Contingency Plan Guidance (“One Plan”) and that, among other matters, includes the elements provided in paragraph (a)5.3.1 of this section, shall satisfy the requirements of this section if the owner or operator also complies with paragraph (e)5.3.3 of this section.

5.2.35.3.3 (e) The emergency response plan developed under paragraph (a)(5.3.1).1 of this section shall be coordinated with the community emergency response plan developed under 42-U.S.C. §11003. Upon request of the ~~local emergency planning committee~~LEPC or emergency response officials, the owner or operator shall promptly provide to the local emergency response officials information necessary for developing and implementing the community emergency response plan.

5.4 Emergency response exercises.

5.4.1 Notification exercises. At least once each calendar year, the owner or operator of a stationary source with any Program 2 or Program 3 process shall conduct an exercise of the stationary source's emergency response notification mechanisms required under §5.1.1.2 or §5.3.1.1.1, as appropriate, before December 19, 2024, and annually thereafter. Owners or operators of responding stationary sources may perform the notification exercise as part of the tabletop and field exercises required in paragraph 5.4.2 of this section. The owner/operator shall maintain a written record of each notification exercise conducted over the last five years.

5.4.2 Emergency response exercise program. The owner or operator of a stationary source subject to the requirements of §5.3 shall develop and implement an exercise program for its emergency response program, including the plan required under §5.3.1.1. Exercises shall involve facility emergency response personnel and, as appropriate, emergency response contractors. When planning emergency response field and tabletop exercises, the owner or operator shall coordinate with local public emergency response officials and invite them to participate in the exercise. The emergency response exercise program shall include:

5.4.2.1 Emergency response field exercises. The owner or operator shall conduct field exercises involving the simulated accidental release of a regulated substance (i.e., toxic substance release or release of a regulated flammable substance involving a fire and/or explosion).

5.4.2.1.1 Frequency. As part of coordination with local emergency response officials required by §5.2, the owner or operator shall consult with these officials to establish an appropriate frequency for field exercises.

5.4.2.1.2 Scope.—~~Subpart F~~ Field exercises shall include: Tests of procedures to notify the public and the appropriate Federal, state, and local emergency response agencies about an accidental release; tests of procedures and measures for emergency response actions including evacuations and medical treatment; tests of communications systems; mobilization of facility emergency response personnel, including contractors, as appropriate; coordination with local emergency responders; emergency response

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- equipment deployment; and any other action identified in the emergency response program, as appropriate.
- 5.4.2.2 Tabletop exercises. The owner or operator shall conduct a tabletop exercise involving the simulated accidental release of a regulated substance.
- 5.4.2.2.1 Frequency. As part of coordination with local emergency response officials required by §5.2, the owner or operator shall consult with these officials to establish an appropriate frequency for tabletop exercises.
- 5.4.2.2.2 Scope. The exercise shall include discussions of: Procedures to notify the public and the appropriate Federal, state, and local emergency response agencies; procedures and measures for emergency response including evacuations and medical treatment; identification of facility emergency response personnel and/or contractors and their responsibilities; coordination with local emergency responders; procedures for emergency response equipment deployment; and any other action identified in the emergency response plan, as appropriate.
- 5.4.2.3 Documentation. The owner/operator shall prepare an evaluation report within 90 days of each exercise. The report shall include: A description of the exercise scenario; names and organizations of each participant; an evaluation of the exercise results including lessons learned; recommendations for improvement or revisions to the emergency response exercise program and emergency response program, and a schedule to promptly address and resolve recommendations.
- 5.4.3 Alternative means of meeting exercise requirements. The owner or operator may satisfy the requirement to conduct notification, field and/or tabletop exercises through:
- 5.4.3.1 Exercises conducted to meet other Federal, state or local exercise requirements, provided the exercise meets the requirements of paragraphs 5.4.1 and/or 5.4.2 of this section, as appropriate.
- 5.4.3.2 Response to an accidental release, provided the response includes the actions indicated in paragraphs 5.4.1 and/or 5.4.2 of this section, as appropriate. When used to meet field and/or tabletop exercise requirements, the owner or operator shall prepare an after-action report comparable to the exercise evaluation report required in paragraph 5.4.2.3 of this section, within 90 days of the incident.

SECTION 6 Regulated Substances for Accidental Release Prevention

6.1 ~~68.100~~ Purpose.

This ~~subpart~~section designates substances to be listed under ~~the Act §section~~ 112(r)(3), (4), and (5) ~~and of the Clean Air Act, as amended,~~ identifies their threshold quantities, ~~and establishes the requirements for petitioning to add or delete substances from the list.~~

6.2 ~~68.115~~ Threshold determination.

- 6.2.1 ~~(a)~~ A threshold quantity of a regulated substance listed in §~~68.1306.6~~ is present at a stationary source if the total quantity of the regulated substance contained in a process exceeds the threshold.
- 6.2.2 ~~(b)~~ For the purposes of determining whether more than a threshold quantity of a regulated substance is present at the stationary source, the following exemptions apply:

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- 6.2.2.1 ~~(1)~~ — *Concentrations of a regulated toxic substance in a mixture.* -If a regulated substance is present in a mixture and the concentration of the substance is below ~~1~~ one percent by weight of the mixture, the amount of the substance in the mixture need not be considered when determining whether more than a threshold quantity is present at the stationary source. -Except for oleum, toluene 2,4-~~diisocyanate~~, toluene 2,6-~~diisocyanate~~, and toluene diisocyanate (unspecified isomer), if the concentration of the regulated substance in the mixture is ~~1~~ one percent or greater by weight, but the owner or operator can demonstrate that the partial pressure of the regulated substance in the mixture (solution) under handling or storage conditions in any portion of the process is less than 10 millimeters of mercury (mm Hg), the amount of the substance in the mixture in that portion of the process need not be considered when determining whether more than a threshold quantity is present at the stationary source. -The owner or operator shall document this partial pressure measurement or estimate.
- 6.2.2.2 ~~(2)~~ — *Concentrations of a regulated flammable substance in a mixture.*
- 6.2.2.2.1 ~~(i)~~ — *General provision.* -If a regulated substance is present in a mixture and the concentration of the substance is below ~~1~~ one percent by weight of the mixture, the mixture need not be considered when determining whether more than a threshold quantity of the regulated substance is present at the stationary source. -Except as provided in paragraph ~~(b)(6.2)(ii).2.2.2~~ and ~~(iii)6.2.2.2.3~~ of this section, if the concentration of the substance is ~~1~~ one percent or greater by weight of the mixture, then, for purposes of determining whether a threshold quantity is present at the stationary source, the entire weight of the mixture shall be treated as the regulated substance unless the owner or operator can demonstrate that the mixture itself does not have a National Fire Protection Association flammability hazard rating of 4. -The demonstration shall be in accordance with the definition of flammability hazard rating 4 in the NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response, National Fire Protection Association, Quincy, MA, 1996. -Available from the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269-9101. - This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. §552(a) and 1 CFR ~~Partpart~~ 51-~~(1997)-~~. Copies may be inspected at the Environmental Protection Agency Air Docket (6102), Attn: Docket No. A-96-O8, Waterside Mall, 401 M. St. SW., Washington ~~D.C.;DC;~~ or at the ~~Office~~National Archives and Records Administration (NARA). For information on the availability of Federal Registerthis material at 800 North Capitol St., NW, Suite 700, Washington, D.C. NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. Boiling point and flash point shall be defined and determined in accordance with NFPA 30, Flammable and Combustible Liquids Code, National Fire Protection Association, Quincy, MA, 1996. -Available from the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269-9101. - This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. §552(a) and 1 CFR

~~Part~~ 51 ~~(1997)~~. Copies may be inspected at the Environmental Protection Agency Air Docket (6102), Attn: ~~-Docket No. A-96-08~~, Waterside Mall, 401 M. St. SW., Washington ~~D.C.; DC~~; or at the ~~Office~~ National Archives and Records Administration (NARA). For information on the availability of Federal Register this material at 800 North Capitol St., NW, Suite 700, Washington, D.C. NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The owner or operator shall document the National Fire Protection Association flammability hazard rating.

- 6.2.2.2.2 ~~(ii)~~ *Gasoline*. - Regulated substances in gasoline, when in distribution or related storage for use as fuel for internal combustion engines, need not be considered when determining whether more than a threshold quantity is present at a stationary source.
- 6.2.2.2.3 ~~(iii)~~ *Naturally occurring hydrocarbon mixtures*. - Prior to entry into a natural gas processing plant or a petroleum refining process unit, regulated substances in naturally occurring hydrocarbon mixtures need not be considered when determining whether more than a threshold quantity is present at a stationary source. -Naturally occurring hydrocarbon mixtures include any combination of the following: -condensate, crude oil, field gas, and produced water, each as defined in ~~§68.31.2 of this part~~.
- 6.2.2.3 ~~(3)~~ — *Articles*. - Regulated substances contained in articles need not be considered when determining whether more than a threshold quantity is present at the stationary source.
- 6.2.2.4 ~~(4)~~ — *Uses*. - Regulated substances, when in use for the following purposes, need not be included in determining whether more than a threshold quantity is present at the stationary source:
- 6.2.2.4.1 ~~(i)~~ Use as a structural component of the stationary source;₂
- 6.2.2.4.2 ~~(ii)~~ Use of products for routine janitorial maintenance;₂
- 6.2.2.4.3 ~~(iii)~~ Use by employees of foods, drugs, cosmetics, or other personal items containing the regulated substance;₂ and
- 6.2.2.4.4 ~~(iv)~~ Use of regulated substances present in process water or non--contact cooling water as drawn from the environment or municipal sources,₂ or use of regulated substances present in air used either as compressed air or as part of combustion.
- 6.2.2.5 ~~(5)~~ — *Activities in ~~Laboratories~~.-laboratories*. If a regulated substance is manufactured, processed, or used in a laboratory at a stationary source under the supervision of a technically qualified individual as defined in 40 CFR §720.3(ee), the quantity of the substance need not be considered in determining whether a threshold quantity is present. -This exemption does not apply to:
- 6.2.2.5.1 ~~(i)~~ Specialty chemical production;₂
- 6.2.2.5.2 ~~(ii)~~ Manufacture, processing, or use of substances in pilot plant scale operations;₂ and
- 6.2.2.5.3 ~~(iii)~~ Activities conducted outside the laboratory.

~~68.120~~ **Petition Process. [Reserved]**

6.3 ~~68.125~~ Exemptions.

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Agricultural nutrients.- Ammonia used as an agricultural nutrient, when held by farmers, is exempt from all provisions of this ~~Part~~ regulation.

6.4 ~~68.126~~ Exclusion.

Flammable Substances Used as Fuel or Held for Sale as Fuel at Retail Facilities. A flammable substance listed in Tables 3 and 4 of §~~68.1306.6~~ is nevertheless excluded from all provisions of this regulation when the substance is used as a fuel or held for sale as a fuel at a retail facility.

6.5 ~~68.130~~ List of substances.

6.5.1 ~~(a)~~ Regulated toxic and flammable substances under ~~the Act~~ §section 112(r) of the Clean Air Act are the substances listed in Tables 1, 2, 3, and 4. -Threshold quantities for listed toxic and flammable substances are specified in the tables.

6.5.2 ~~(b)~~ The basis for placing toxic and flammable substances on the list of regulated substances are explained in the notes to the list.

TABLE 1 TO §~~68.130~~6.6—LIST OF REGULATED TOXIC SUBSTANCES AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION
[Alphabetical Order—77 Substances]

Table 1		Threshold Quantity (Lbs) <u>quantity</u> <u>(lbs)</u>	Basis for Listing <u>listing</u>
Chemical Name <u>name</u>	CAS No.		
Acrolein -[2-Propenal]	107-02-8	5,000	b
Acrylonitrile -[2-Propenenitrile]	107-13-1	20,000	b
Acrylyl chloride -[2-Propenoyl chloride]	814-68-6	5,000	b
Allyl alcohol -[2-Propen- 1-ol ol]	107-18-6	15,000	b
Allylamine -[2-Propen- 1 amine]	107-11-9	10,000	b
Ammonia (anhydrous)	7664-41-7	10,000	a_b
Ammonia (conc. 20% or greater)	7664-41-7	20,000	a_b
Arsenous trichloride	7784-34-1	15,000	b
Arsine	7784-42-1	1,000	b
Boron trichloride -[Borane, trichloro-]	10294-34-5	5,000	b
Boron trifluoride -[Borane, trifluoro-]	7637-07-2	5,000	b
Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro [oxybis [methane]], <u>metane</u>]-, T-4_	353-42-4	15,000	b

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Bromine	7726-95-6	10,000	a,_b
Carbon disulfide	75-15-0	20,000	b
Chlorine	7782-50-5	2,500	a,_b
Chlorine dioxide -[Chlorine oxide (ClO ₂)]	10049-04-4	1,000	c
Chloroform -[Methane, trichloro-]	67-66-3	20,000	b
Chloromethyl ether -[Methane, oxybis[chloro-]]	542-88-1	1,000	b
Chloromethyl methyl ether -[Methane, chloromethoxy-]	107-30-2	5,000	b
Crotonaldehyde -[2-Butenal]	4170-30-3	20,000	b
Crotonaldehyde, (E)- [2-Butenal, (E)-]	123-73-9	20,000	b
Cyanogen chloride	506-77-4	10,000	c
Cyclohexylamine -[Cyclohexanamine]	108-91-8	15,000	b
Diborane	19287-45-7	2,500	b
Dimethyldichlorosilane -[Silane, dichlorodimethyl-]	75-78-5	5,000	b
1,1-Dimethylhydrazine -[Hydrazine, 1,1-dimethyl-]	57-14-7	15,000	b
Epichlorohydrin -[Oxirane, (chloromethyl)-]	106-89-8	20,000	b
Ethylenediamine -[1,2-Ethanediamine]	107-15-3	20,000	b
Ethyleneimine -[Aziridine]	151-56-4	10,000	b
Ethylene oxide -[Oxirane]	75-21-8	10,000	a,_b
Fluorine	7782-41-4	1,000	b
Formaldehyde (solution)	50-00-0	15,000	b
Furan	110-00-9	5,000	b
Hydrazine	302-01-2	15,000	b
Hydrochloric acid (conc: 37% or greater)	7647-01-0	15,000	d
Hydrocyanic acid	74-90-8	2,500	a,_b
Hydrogen chloride (anhydrous) [Hydrochloric acid]	7647-01-0	5,000	a
Hydrogen fluoride/Hydrofluoric acid (conc: 50% or greater) [<u>Hydrofluoric acid</u>]	7664-39-3	1,000	a,_b

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Hydrogen selenide	7783-07-5	500	b
Hydrogen sulfide	7783-06-4	10,000	a,_b
Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) ₅), (TB-5-11)-]	13463-40-6	2,500	b
Isobutyronitrile -[Propanenitrile, 2-methyl-]	78-82-0	20,000	b
Isopropyl chloroformate -[Carbonochloridic acid, 1-methylethyl ester]	108-23-6	15,000	b
Methacrylonitrile -[2-Propenenitrile, 2-methyl-]	126-98-7	10,000	b
Methyl chloride -[Methane, chloro-]	74-87-3	10,000	a
Methyl chloroformate -[Carbonochloridic acid, methylester]	79-22-1	5,000	b
Methyl hydrazine -[Hydrazine, methyl-]	60-34-4	15,000	b
Methyl isocyanate -[Methane, isocyanato-]	624-83-9	10,000	a,_b
Methyl mercaptan -[Methanethiol]	74-93-1	10,000	b
Methyl thiocyanate -[Thiocyanic acid, methyl ester]	556-64-9	20,000	b
Methyltrichlorosilane -[Silane, trichloromethyl-]	75-79-6	5,000	b
Nickel carbonyl	13463-39-3	1,000	b
Nitric acid (conc- 80% or greater)	7697-37-2	15,000	b
Nitric oxide -[Nitrogen oxide (NO)]	10102-43-9	10,000	b
Oleum (Fuming Sulfuric acid) -[Sulfuric acid, mixture with sulfur trioxide] ¹	8014-95-7	10,000	e
Peracetic acid -[Ethaneperoxoic acid]	79-21-0	10,000	b
Perchloromethylmercaptan -[Methanesulfenyl chloride, trichloro-]	594-42-3	10,000	b
Phosgene -[Carbonic dichloride]	75-44-5	500	a,_b
Phosphine	7803-51-2	5,000	b
Phosphorus oxychloride [Phosphoryl chloride] [Phosphoryl chloride]	10025-87-3	5,000	b
Phosphorus trichloride -[Phosphorous trichloride]	7719-12-2	15,000	b

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Piperidine	110-89-4	15,000	b
Propionitrile -[Propanenitrile]	107-12-0	10,000	b
Propyl chloroformate -[Carbonochloridic acid, propylester]	109-61-5	15,000	b
Propyleneimine -[Aziridine, 2-methyl-]	75-55-8	10,000	b
Propylene oxide -[Oxirane, methyl-]	75-56-9	10,000	b
Sulfur dioxide (anhydrous)	7446-09-5	5,000	a, b
Sulfur tetrafluoride -[Sulfur fluoride (SF4), (T-4)-]	7783-60-0	2,500	b
Sulfur trioxide	7446-11-9	10,000	a, b
Tetramethyllead -[Plumbane, tetramethyl-]	75-74-1	10,000	b
Tetranitromethane -[Methane, tetranitro-]	509-14-8	10,000	b
Titanium tetrachloride -[Titanium chloride (TiCl₄) <u>TiCl₄</u>] (T-4)-]	7550-45-0	2,500	b
Toluene 2,4-diisocyanate -[Benzene, 2,4-diisocyanato-1-methyl-] ¹	584-84-9	10,000	a
Toluene 2,6-diisocyanate -[Benzene, 1,3-diisocyanato-2-methyl-] ¹	91-08-7	10,000	a
Toluene diisocyanate (unspecified isomer) -[Benzene, 1,3-diisocyanatomethyl-] ¹	26471-62-5	10,000	a
Trimethylchlorosilane -[Silane, chlorotrimethyl-]	75-77-4	10,000	b
Vinyl acetate monomer -[Acetic acid ethenyl ester]	108-05-4	15,000	b

¹ ~~The~~ The mixture exemption in §~~68.115(b)(6.2.2.1)~~ does not apply to the substance.

NOTE: Basis for Listing:

- Mandated for listing by Congress.
- On EHS list, vapor pressure 10 mmHg or greater.
- Toxic gas.
- Toxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.
- Toxicity of sulfur trioxide and sulfuric acid, potential to release sulfur trioxide, and history of accidents.

TABLE 2 TO §~~68.1306.6~~—LIST OF REGULATED TOXIC SUBSTANCES AND THRESHOLD QUANTITIES

FOR ACCIDENTAL RELEASE PREVENTION
[CAS Number Order—77 Substances]

CAS No.	Table 2 Chemical Name	Threshold Quantity (Lbs)	Basis for Listing
<u>CAS No.</u>	<u>Chemical name</u>	<u>Threshold quantity (lbs)</u>	<u>Basis for listing</u>
50-00-0	Formaldehyde (solution)	15,000	b
57-14-7	1,1-Dimethylhydrazine -[Hydrazine, 1,1-dimethyl-]	15,000	b
60-34-4	Methyl hydrazine -[Hydrazine, methyl-]	15,000	b
67-66-3	Chloroform -[Methane, trichloro-]	20,000	b
74-87-3	Methyl chloride -[Methane, chloro-]	10,000	a
74-90-8	Hydrocyanic acid	2,500	a, b
74-93-1	Methyl mercaptan -[Methanethiol]	10,000	b
75-15-0	Carbon disulfide	20,000	b
75-21-8	Ethylene oxide -[Oxirane]	10,000	a, b
75-44-5	Phosgene -[Carbonic dichloride]	500	a, b
75-55-8	Propyleneimine -[Aziridine, 2-methyl-]	10,000	b
75-56-9	Propylene oxide -[Oxirane, methyl-]	10,000	b
75-74-1	Tetramethyllead -[Plumbane, tetramethyl-]	10,000	b
75-77-4	Trimethylchlorosilane -[Silane, chlorotrimethyl-]	10,000	b
75-78-5	Dimethyldichlorosilane -[Silane, dichlorodimethyl-]	5,000	b
75-79-6	Methyltrichlorosilane -[Silane, trichloromethyl-]	5,000	b
78-82-0	Isobutyronitrile -[Propanenitrile, 2-methyl-]	20,000	b
79-21-0	Peracetic acid -[Ethaneperoxoic acid]	10,000	b
79-22-1	Methyl chloroformate -[Carbonochloridic acid, methylester]	5,000	b
91-08-7	Toluene 2,6-diisocyanate -[Benzene, 1,3-diisocyanato-2-methyl-] ¹	10,000	a

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

CAS No.	Table 2 Chemical Name	Threshold Quantity (Lbs)	Basis for Listing
106-89-8	Epichlorohydrin -[Oxirane, (chloromethyl)-]	20,000	b
107-02-8	Acrolein -[2-Propenal]	5,000	b
107-11-9	Allylamine -[2-Propen-1-amine]	10,000	b
107-12-0	Propionitrile -[Propanenitrile]	10,000	b
107-13-1	Acrylonitrile -[2-Propenenitrile]	20,000	b
107-15-3	Ethylenediamine -[1,2-Ethanediamine]	20,000	b
107-18-6	Allyl alcohol -[2-Propen-1- ol]	15,000	b
107-30-2	Chloromethyl methyl ether -[Methane, chloromethoxy-]	5,000	b
108-05-4	Vinyl acetate monomer -[Acetic acid ethenyl ester]	15,000	b
108-23-6	Isopropyl chloroformate -[Carbonochloridic acid, 1-methylethyl ester]	15,000	b
108-91-8	Cyclohexylamine -[Cyclohexanamine]	15,000	b
109-61-5	Propyl chloroformate -[Carbonochloridic acid, propylester]	15,000	b
110-00-9	Furan	5,000	b
110-89-4	Piperidine	15,000	b
123-73-9	Crotonaldehyde, (E)- [2-Butenal, (E)-]	20,000	b
126-98-7	Methacrylonitrile -[2-Propenenitrile, 2-methyl-]	10,000	b
151-56-4	Ethyleneimine -[Aziridine]	10,000	b
302-01-2	Hydrazine	15,000	b
353-42-4	Boron trifluoride compound with methyl ether (1:1) -[Boron, trifluoro- [oxybis[metane]] , [methane]-, T-4-	15,000	b
506-77-4	Cyanogen chloride	10,000	c
509-14-8	Tetranitromethane -[Methane, tetranitro-]	10,000	b
542-88-1	Chloromethyl ether -[Methane, oxybis[chloro-]	1,000	b
556-64-9	Methyl thiocyanate -[Thiocyanic acid, methyl ester]	20,000	b
584-84-9	Toluene 2,4-diisocyanate -[Benzene, 2,4-diisocyanato-1-methyl-] ¹	10,000	a
594-42-3	Perchloromethylmercaptan -[Methanesulfenyl chloride, trichloro-]	10,000	b

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

CAS No.	Table 2 Chemical Name	Threshold Quantity (Lbs)	Basis for Listing
624-83-9	Methyl isocyanate -[Methane, isocyanato-]	10,000	a, b
814-68-6	Acrylyl chloride -[2-Propenoyl chloride]	5,000	b
4170-30-3	Crotonaldehyde -[2-Butenal]	20,000	b
7446-09-5	Sulfur dioxide (anhydrous)	5,000	a, b
7446-11-9	Sulfur trioxide	10,000	a, b
7550-45-0	Titanium tetrachloride -[Titanium chloride (TiCl₄)-TiCl ₄] (T-4)-]	2,500	b
7637-07-2	Boron trifluoride -[Borane, trifluoro-]	5,000	b
7647-01-0	Hydrochloric acid (conc 37% or greater)	15,000	d
7647-01-0	Hydrogen chloride (anhydrous) [Hydrochloric acid]	5,000	a
7647-01-0	Hydrochloric acid (conc. 37% or greater)	15,000	d
7664-39-3	Hydrogen fluoride/Hydrofluoric acid (conc. 50% or greater) [Hydrofluoric acid]	1,000	a, b
7664-41-7	Ammonia (anhydrous)	10,000	a, b
7664-41-7	Ammonia (conc. 20% or greater)	20,000	a, b
7664-41-7	Ammonia (anhydrous)	10,000	a, b
7697-37-2	Nitric acid (conc. 80% or greater)	15,000	b
7719-12-2	Phosphorus trichloride -[Phosphorous trichloride]	15,000	b
7726-95-6	Bromine	10,000	a, b
7782-41-4	Fluorine	1,000	b
7782-50-5	Chlorine	2,500	a, b
7783-06-4	Hydrogen sulfide	10,000	a, b
7783-07-5	Hydrogen selenide	500	b
7783-60-0	Sulfur tetrafluoride -[Sulfur fluoride (SF ₄), (T-4)-]	2,500	b
7784-34-1	Arsenous trichloride	15,000	b
7784-42-1	Arsine	1,000	b
7803-51-2	Phosphine	5,000	b
8014-95-7	Oleum (Fuming Sulfuric acid) -[Sulfuric acid, mixture with	10,000	e

CAS No.	Table 2 Chemical Name	Threshold Quantity (Lbs)	Basis for Listing
	sulfur trioxide] ¹		
10025-87-3	Phosphorus oxychloride -[Phosphorylchloride] <u>[Phosphoryl chloride]</u>	5,000	b
10049-04-4	Chlorine dioxide -[Chlorine oxide (ClO₂ClO₂)]	1,000	c
10102-43-9	Nitric oxide -[Nitrogen oxide (NO)]	10,000	b
10294-34-5	Boron trichloride -[Borane, trichloro-]	5,000	b
13463-39-3	Nickel carbonyl	1,000	b
13463-40-6	Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) ₅), (TB-5-11)-]	2,500	b
19287-45-7	Diborane	2,500	b
26471-62-5	Toluene diisocyanate (unspecified isomer) -[Benzene, 1,3-diisocyanatomethyl-1]¹	10,000	a

⁺ ~~The~~The mixture exemption in §~~68.115(b)(6.2.2.1)~~ does not apply to the substance.

NOTE: Basis for Listing:

- a Mandated for listing by Congress.
- b On EHS list, vapor pressure 10 mmHg or greater.
- c Toxic gas.
- d Toxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.
- e Toxicity of sulfur trioxide and sulfuric acid, potential to release sulfur trioxide, and history of accidents.

TABLE 3 TO §~~68.1306.6~~—LIST OF REGULATED FLAMMABLE SUBSTANCES¹ AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION
[Alphabetical Order—63 Substances]

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Table 3 Chemical Name	CAS No.	Thresh old Quanti ty (Lbs)	B a s i s f o r L i s t i n g
<u>Chemical name</u>	<u>CAS No.</u>	<u>Threshol d quantity (lbs)</u>	
Acetaldehyde	75-07-0	10,000	
Acetylene -[Ethyne]	74-86-2	10,000	
Bromotrifluorethylene -[Ethene, bromotrifluoro-]	598-73-2	10,000	
1,3-Butadiene	106-99-0	10,000	
Butane	106-97-8	10,000	
1-Butene	106-98-9	10,000	

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Table 3 Chemical Name	CAS No.	Thresh old Quanti ty (Lbs)	B a s i s f o r L i s t i n g
2-Butene	107-01-7	10,000	
Butene	25167-67-3	10,000	
2-Butene-cis	590-18-1	10,000	
2-Butene-trans -[2-Butene, -(E)]	624-64-6	10,000	
Carbon oxysulfide -[Carbon oxide sulfide (COS)]	463-58-1	10,000	
Chlorine monoxide -[Chlorine oxide]	7791-21-1	10,000	
2-Chloropropylene -[1-Propene, 2-chloro-]	557-98-2	10,000	
1-Chloropropylene -[1-Propene, 1-chloro-]	590-21-6	10,000	
Cyanogen [Ethanedinitrile] [Ethanedinitrile]	460-19-5	10,000	
Cyclopropane	75-19-4	10,000	
Dichlorosilane [Silane, dichloro-]	4109-96-0	10,000	
Difluoroethane -[Ethane, 1,1-difluoro-]	75-37-6	10,000	
Dimethylamine -[Methanamine, N-methyl-]	124-40-3	10,000	
2,2-Dimethylpropane -[Propane, 2,2-dimethyl-]	463-82-1	10,000	
Ethane	74-84-0	10,000	
Ethyl acetylene -[1-Butyne]	107-00-6	10,000	
Ethylamine -[Ethanamine]	75-04-7	10,000	

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Table 3 Chemical Name	CAS No.	Thresh old Quanti ty (Lbs)	B a s i s f o r L i s t i n g
Ethyl chloride -[Ethane, chloro-]	75-00-3	10,000	
Ethylene -[Ethene]	74-85-1	10,000	
Ethyl ether -[Ethane, 1,1'-oxybis-]	60-29-7	10,000	
Ethyl mercaptan -[Ethanethiol]	75-08-1	10,000	
Ethyl nitrite -[Nitrous acid, ethyl ester]	109-95-5	10,000	
Hydrogen	1333-74-0	10,000	
Isobutane -[Propane, 2-methyl]	75-28-5	10,000	
Isopentane -[Butane, 2-methyl-]	78-78-4	10,000	
Isoprene -[1,3- Butadiene Butadinene, 2-methyl-]	78-79-5	10,000	
Isopropylamine -[2-Propanamine]	75-31-0	10,000	
Isopropyl chloride -[Propane, 2-chloro-]	75-29-6	10,000	
Methane	74-82-8	10,000	
Methylamine -[Methanamine]	74-89-5	10,000	
3-Methyl-1-butene	563-45-1	10,000	
2-Methyl-1-butene	563-46-2	10,000	
Methyl ether -[Methane, oxybis-]	115-10-6	10,000	
Methyl formate -[Formic acid, methyl ester]	107-31-3	10,000	

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Table 3 Chemical Name	CAS No.	Thresh old Quanti ty (Lbs)	B a s i s f o r L i s t i n g
2-Methylpropene -[1-Propene, 2-methyl]-]	115-11-7	10,000	
1,3- Pentadiene <u>Pentadinene</u>	504-60-9	10,000	
Pentane	109-66-0	10,000	
1-Pentene	109-67-1	10,000	
2-Pentene, (E)-]-	646-04-8	10,000	
2-Pentene, (Z)-	627-20-3	10,000	
Propadiene -[1,2-Propadiene]	463-49-0	10,000	
Propane	74-98-6	10,000	
Propylene -[1-Propene]	115-07-1	10,000	
Propyne -[1-Propyne]	74-99-7	10,000	
Silane	7803-62-5	10,000	
Tetrafluoroethylene -[Ethene, tetrafluoro-]	116-14-3	10,000	
Tetramethylsilane -[Silane, tetramethyl-]	75-76-3	10,000	
Trichlorosilane -[Silane, trichloro-]	10025-78-2	10,000	
Trifluorochloroethylene -[Ethene, chlorotrifluoro-]	79-38-9	10,000	
Trimethylamine -[Methanamine, N,N-dimethyl-]	75-50-3	10,000	
Vinyl acetylene -[1-Buten-3-yne]	689-97-4	10,000	

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

Table 3 Chemical Name	CAS No.	Threshold Quantity (Lbs)	Basis for Listing
Vinyl chloride -[Ethene, chloro-]	75-01-4	10,000	
Vinyl ethyl ether -[Ethene, ethoxy ethoxy-]	109-92-2	10,000	
Vinyl fluoride -[Ethene, fluoro-]	75-02-5	10,000	
Vinylidene chloride -[Ethene, 1,1-dichloro-]	75-35-4	10,000	
Vinylidene fluoride -[Ethene, 1,1-difluoro-]	75-38-7	10,000	
Vinyl methyl ether -[Ethene, methoxy-]	107-25-5	10,000	

[†] ~~_____A¹A~~ flammable substance when used as a fuel or held for sale as a fuel at a retail facility is excluded from all provisions of this regulation (see §~~68.1266.5~~).

NOTE: Basis for ~~listing~~Listing:

a Mandated for listing by Congress.

f Flammable gas.

g Volatile flammable liquid.

TABLE 4 TO §~~68.1306.6~~—LIST OF REGULATED FLAMMABLE SUBSTANCES¹ AND THRESHOLD QUANTITIES

FOR ACCIDENTAL RELEASE PREVENTION
[CAS Number Order—63 Substances]

CAS No.	Table 4 Chemical Name Chemical name	Threshold Quantity (Lbs quantity (lbs))	Basis for Listing listing
60-29-7	Ethyl ether -[Ethane, 1, 1' 1'-oxybis-]	10,000	g
74-82-8	Methane	10,000	f
74-84-0	Ethane	10,000	f
74-85-1	Ethylene -[Ethene]	10,000	f
74-86-2	Acetylene -[Ethyne]	10,000	f
74-89-5	Methylamine -[Methanamine]	10,000	f
74-98-6	Propane	10,000	f
74-99-7	Propyne -[1-Propyne]	10,000	f
75-00-3	Ethyl chloride -[Ethane, chloro-]	10,000	f
75-01-4	Vinyl chloride -[Ethene, chloro-]	10,000	a, f
75-02-5	Vinyl fluoride -[Ethene, fluoro-]	10,000	f
75-04-7	Ethylamine -[Ethanamine]	10,000	f
75-07-0	Acetaldehyde	10,000	g
75-08-1	Ethyl mercaptan -[Ethanethiol]	10,000	g
75-19-4	Cyclopropane	10,000	f
75-28-5	Isobutane -[Propane, 2-methyl]	10,000	f
75-29-6	Isopropyl chloride -[Propane, 2-chloro-]	10,000	g
75-31-0	Isopropylamine -[2-Propanamine]	10,000	g
75-35-4	Vinylidene chloride -[Ethene, 1,1-dichloro-]	10,000	g
75-37-6	Difluoroethane -[Ethane, 1,1-difluoro-]	10,000	f
75-38-7	Vinylidene fluoride -[Ethene, 1,1-difluoro-]	10,000	f
75-50-3	Trimethylamine -[Methanamine, N,N-dimethyl-]	10,000	f

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

75-76-3	Tetramethylsilane -[Silane, tetramethyl-]	10,000	g
78-78-4	Isopentane -[Butane, 2-methyl-]	10,000	g
78-79-5	Isoprene -[1,3-, 2 -Butadiene, 2-methyl-]	10,000	g
79-38-9	Trifluorochloroethylene -[Ethene, chlorotrifluoro-]	10,000	f
106-97-8	Butane	10,000	f
106-98-9	1-Butene	10,000	f
106-99-0	1,3-Butadiene	10,000	f
107-00-6	Ethyl acetylene -[1-Butyne]	10,000	f
107-01-7	2-Butene	10,000	f
107-25-5	Vinyl methyl ether -[Ethene, methoxy-]	10,000	f
107-31-3	Methyl formate -[Formic acid, methyl ester]	10,000	g
109-66-0	Pentane	10,000	g
109-67-1	1-Pentene	10,000	g
109-92-2	Vinyl ethyl ether -[Ethene, ethoxyethoxy -]	10,000	g
109-95-5	Ethyl nitrite -[Nitrous acid, ethyl ester]	10,000	f
115-07-1	Propylene -[1-Propene]	10,000	f
115-10-6	Methyl ether -[Methane, oxybis-]	10,000	f
115-11-7	2-Methylpropene -[1-Propene, 2-methyl-]	10,000	f
116-14-3	Tetrafluoroethylene -[Ethene, tetrafluoro-]	10,000	f
124-40-3	Dimethylamine -[Methanamine, N-methyl-]	10,000	f
460-19-5	Cyanogen [Ethanedinitrile] [Ethanedinitrile]	10,000	f
463-49-0	Propadiene -[1,2-Propadiene]	10,000	f
463-58-1	Carbon oxysulfide -[Carbon oxide sulfide (COS)]	10,000	f
463-82-1	2,2-Dimethylpropane -[Propane, 2,2-dimethyl-]	10,000	f
504-60-9	1,3-Pentadiene	10,000	f
557-98-2	2-Chloropropylene -[1-Propene, 2-chloro-]	10,000	g
563-45-1	3-Methyl-1-butene	10,000	f
563-46-2	2-Methyl-1-butene	10,000	g
590-18-1	2-Butene-cis	10,000	f

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

590-21-6	1-Chloropropylene -[1-Propene, 1-chloro-]	10,000	g
598-73-2	Bromotrifluorethylene -[Ethene, bromotrifluoro-]	10,000	f
624-64-6	2-Butene-trans -[2-Butene, -(E)]	10,000	f
627-20-3	2-Pentene, (Z)-	10,000	g
646-04-8	2-Pentene, (E)- g	10,000	g
689-97-4	Vinyl acetylene -[1-Buten-3-yne]	10,000	f
1333-74-0	Hydrogen	10,000	f
4109-96-0	Dichlorosilane [Silane, dichloro-]	10,000	f
7791-21-1	Chlorine monoxide -[Chlorine oxide]	10,000	f
7803-62-5	Silane	10,000	f
10025-78-2	Trichlorosilane -[Silane, trichloro-]	10,000	g
25167-67-3	Butene	10,000	f

[†] ~~_____~~ A¹A flammable substance when used as a fuel or held for sale as a fuel at a retail facility is excluded from all provisions of this regulation (see §~~68.1266.5~~).

Note: ~~_____~~ Basis for ~~listing:~~ Listing:

- a Mandated for listing by Congress.
- f Flammable gas.
- g Volatile flammable liquid.

SECTION 7 ~~Subpart G~~ Risk Management Plan

7.1 ~~68.150~~ Submission.

7.1.1 ~~(a)~~ The owner or operator shall submit a single RMP that includes the information required by §§~~68.155~~ sections 7.4 through ~~68.185~~ 7.11 for all covered processes. The RMP shall be submitted ~~to the District and EPA~~ in ~~the~~ method and format ~~to the central point specified by the District as specified by the District and EPA, respectively, prior to June 21, 1999~~ of the date of submission.

7.1.2 ~~(b)~~ The owner or operator shall submit the first RMP no later than the latest of the following dates:

7.1.2.1 ~~(1)~~ June 21, 1999;~~;~~

7.1.2.2 ~~(2)~~ Three years after the date on which a regulated substance is first listed under §~~68.130,6.6~~; or

7.1.2.3 ~~(3)~~ The date on which a regulated substance is first present above a threshold quantity in a process.

7.1.3 ~~(e)~~ Subsequent submissions of The owner or operator of any stationary source for which an RMP was submitted before ~~**insert date of finalization of version 4, shall~~

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- revise the RMP to include the information required by sections 7.5.2.6 and 7.5.2.14 by ~~**insert date 60 days after finalization of version 4 in the manner specified by the District prior to that date. Any such submission shall also include the information required by §7.5.2.20 (indicating that the submission is a correction to include the information required by sections 7.5.2.6 and 7.5.2.14 or an update under §7.12).~~
- ~~7.1.37.1.4~~ RMPs submitted under this section shall be updated and corrected in accordance with ~~§§68.190~~sections 7.12 and 7.13.
- ~~7.1.5~~ (d) Notwithstanding the provisions of ~~§§68.155~~sections 7.4 to ~~68.190~~7.12, the RMP shall exclude classified information. Subject to appropriate procedures to protect such information from public disclosure, classified data or information excluded from the RMP ~~shall~~may be made available in a classified annex to the RMP for review by Federal, ~~State, District,~~ and ~~other local~~state representatives who have received the appropriate security clearances. ~~(e)~~
- ~~7.1.47.1.6~~ Procedures for asserting that information submitted in the RMP is entitled to protection as confidential business information are set forth in ~~§§68.151~~sections 7.2 and ~~68.152~~7.3.
- 7.2 ~~68.151~~ Assertion of claims of confidential business information.
- 7.2.1 (a) Except as provided in paragraph ~~(b)~~7.2.2 of this section, an owner or operator of a stationary source required to report or otherwise provide information under this ~~Part~~regulation may make a claim of confidential business information for any such information that meets the criteria set forth in 40 CFR 2.301.
- 7.2.2 (b) Notwithstanding the provisions of 40 CFR ~~Part~~part 2, an owner or operator of a stationary source subject to this ~~Part~~regulation may not claim as confidential business information the following information:
- 7.2.2.1 (1) — Registration data required by ~~§§68.160(b)(1)~~§7.5.2.1 through ~~(b)(7.5.2.6), (b)(8), and (b)(7.5.2.8, 7.5.2.10) through (b)(7.5.2.13)~~ and NAICS code and Program level of the process set forth in ~~§68.160(b)(7), 5.2.7;~~
- 7.2.2.2 (2) — Offsite consequence analysis data required by ~~§§68.165(b)(7.6.2.4), (b)(7.6.2.9), (b)(7.6.2.10), (b)(7.6.2.11), and (b)(7.6.2.12);~~
- 7.2.2.3 (3) — Accident history data required by ~~§68.168, 7.7;~~
- 7.2.2.4 (4) — Prevention program data required by ~~§§68.170(b), (d), (e)(1), and (f)~~sections 7.8.2, 7.8.4, 7.8.5.1, 7.8.6 through ~~(k), 7.8.6.11;~~
- 7.2.2.5 (5) — Prevention program data required by ~~§§68.175(b), (d), (e)(1), and (f)~~sections 7.9.2, 7.9.4, 7.9.5.1, 7.9.6 through ~~(p), 7.9.6.16;~~ and
- 7.2.2.6 (6) — Emergency response program data required by ~~§68.180~~7.10.
- 7.2.3 (e) Notwithstanding the procedures specified in 40 CFR ~~Part~~part 2, an owner or operator asserting a claim of ~~confidential business information (CBI)~~ with respect to information contained in its RMP, shall submit to the District ~~and EPA,~~ at the time ~~the owner or operator~~it submits the RMP, the following:
- 7.2.3.1 (1) The information claimed confidential, provided in a format to be specified by ~~the District and EPA;~~
- 7.2.3.2 (2) — A sanitized (redacted) copy of the RMP, with the notation “CBI” substituted for the information claimed confidential, except that a generic category or class name shall be substituted for any chemical name or identity claimed confidential; and

- 7.2.3.3 ~~(3)~~—The document or documents substantiating each claim of confidential business information, as described in §~~68.152~~7.3.
- 7.3 ~~68.152~~ Substantiating claims of confidential business information.
- 7.3.1 ~~(a)~~—An owner or operator claiming that information is confidential business information must substantiate that claim by providing documentation that demonstrates that the claim meets the substantive criteria set forth in 40 CFR 2.301.
- 7.3.2 ~~(b)~~—Information that is submitted as part of the substantiation may be claimed confidential by marking it as confidential business information. Information not so marked will be treated as public and may be disclosed without notice to the submitter. If information that is submitted as part of the substantiation is claimed confidential, the owner or operator must provide a sanitized and unsanitized version of the substantiation.
- 7.3.3 ~~(e)~~—The owner, operator, or senior official with management responsibility of the stationary source shall sign a certification that the signer has personally examined the information submitted and that based on inquiry of the persons who compiled the information, the information is true, accurate, and complete, and that those portions of the substantiation claimed as confidential business information would, if disclosed, reveal trade secrets or other confidential business information.
- 7.4 ~~68.155~~ Executive summary.
The owner or operator shall provide in the RMP an executive summary that includes a brief description of the following elements:
- 7.4.1 ~~(a)~~—The accidental release prevention and emergency response policies at the stationary source;_i
- 7.4.2 ~~(b)~~—The stationary source and regulated substances handled;_i
- ~~(c)~~—~~The worst case release scenario and the alternative release scenario, including administrative controls and mitigation measures to limit the distances, for each reported scenario;~~
- 7.4.3 ~~(d)~~—The general accidental release prevention program and chemical-specific prevention steps;_i
- 7.4.4 ~~(e)~~—The ~~5~~five-year accident history;_i
- 7.4.5 ~~(f)~~—The emergency response program;_i and
- 7.4.6 ~~(g)~~—Planned changes to improve safety.
- 7.5 ~~68.160~~ Registration.
- 7.5.1 ~~(a)~~—The owner or operator shall complete a single registration form and include it in the RMP. The form shall cover all regulated substances handled in covered processes.
- 7.5.2 ~~(b)~~—The registration shall include the following data:
- 7.5.2.1 ~~(1)~~—Stationary source name, street, city, county, state, zip code, latitude and longitude, method for obtaining latitude and longitude, and description of location that latitude and longitude represent;
~~location that latitude and longitude represent,~~
- 7.5.2.2 ~~(2)~~—The stationary source Dun and Bradstreet number;_i
- 7.5.2.3 ~~(3)~~—Name and Dun and Bradstreet number of the corporate parent company;_i

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- 7.5.2.4 ~~(4)~~—The name, telephone number, and mailing address of the owner or operator_{;;}
- 7.5.2.5 ~~(5)~~—The name and title of the person or position with overall responsibility for RMP elements and implementation, and (optional) the e-mail address for that person or position;
- 7.5.2.6 ~~(6)~~—The name, title, telephone number, ~~and~~ 24-hour telephone number, and, as of June 21, 2004, the e-mail address (if an e-mail address exists) of the emergency contact_{;;}
- 7.5.2.7 ~~(7)~~—For each covered process, the name and CAS number of each regulated substance held above the threshold quantity in the process, the maximum quantity of each regulated substance or mixture in the process (in pounds) to two significant digits, the five- or six-digit NAICS code that most closely corresponds to the process, and the Program level of the process_{;;}
- 7.5.2.8 ~~(8)~~—The stationary ~~source's District ID number,~~ source EPA identifier;
- 7.5.2.9 ~~(9)~~—The number of full-time employees at the stationary source_{;;}
- 7.5.2.10 ~~(10)~~—Whether the stationary source is subject to 29 CFR §1910.119-~~(1997);;~~
- 7.5.2.11 ~~(11)~~—Whether the stationary source is subject to 40 CFR ~~Part~~ part 355_{;;}
- 7.5.2.12 ~~(12)~~—~~Whether~~ If the stationary source has a CAA Title V operating permit pursuant to Regulation 2.16 Title V Operating Permits, the permit number_{;;} and
- 7.5.2.13 ~~(13)~~—The date of the last safety inspection of the stationary source by a Federal, state, or local government agency and the identity of the inspecting entity_{;;}
- 7.5.2.14 (14)—As of June 21, 2004, the name, the mailing address, and the telephone number of the contractor who prepared the RMP (if any);
- 7.5.2.147.5.2.15 Source or ~~parent company~~ Parent Company E-Mail ~~address~~ Address (Optional)_{;;}
- 7.5.2.157.5.2.16 (15)—Source Homepage address (Optional)_{;;}
- 7.5.2.167.5.2.17 (16)—Phone number at the source for public inquiries (Optional)_{;;}
- 7.5.2.177.5.2.18 (17)—Local Emergency Planning Committee (Optional)_{;;} and
- 7.5.2.187.5.2.19 (18)—OSHA Voluntary Protection Program status (Optional)_{;;}
- 7.5.2.20 68.165 As of Click or tap to enter a date., the type of and reason for any changes being made to a previously submitted RMP; the types of changes to RMP are categorized as follows:
- 7.5.2.20.1 Updates and re-submissions required under §7.12.2;
- 7.5.2.20.2 Corrections under §7.13 or for purposes of correcting minor clerical errors, updating administrative information, providing missing data elements or reflecting facility ownership changes, and which do not require an update and re-submission as specified in §7.12.2;
- 7.5.2.20.3 De-registrations required under §7.12.3; and
- 7.5.2.20.4 Withdrawals of an RMP for any facility that was erroneously considered subject to this Regulation.
- 7.5.2.21 Method of communication and location of the notification that chemical hazard information is available to the public, pursuant to §8.2.3; and
- 7.5.2.22 Whether a public meeting has been held following an RMP reportable accident, pursuant to §8.2.5.
- 7.6 Offsite consequence analysis.
- 7.6.1 ~~(a)~~—The owner or operator shall submit in the RMP information:

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 7.6.1.1 (1) — One worst-case release scenario for each Program 1 process_{;i}; and
- 7.6.1.2 (2) — For Program 2 ~~or~~and 3 processes, one worst-case release scenario to represent all regulated toxic substances held above the threshold quantity and one worst-case release scenario to represent all regulated flammable substances held above the threshold quantity. If additional worst-case scenarios for toxics or flammables are required by §~~68.25(a)(2)(iii)~~,3.1.2.3, the owner or operator shall submit the same information on the additional ~~scenarios~~scenario(s). The owner or operator of Program 2 ~~or~~and 3 processes shall also submit information on one alternative release scenario for each regulated toxic substance held above the threshold quantity and one alternative release scenario to represent all regulated flammable substances held above the threshold quantity.
- 7.6.2 ~~(b)~~ The owner or operator shall submit the following data:
- 7.6.2.1 (1) — Chemical name_{;i};
- 7.6.2.2 (2) — Percentage weight of the chemical in a liquid mixture (toxics only)_{;i};
- 7.6.2.3 (3) — Physical state (toxics only)_{;i};
- 7.6.2.4 (4) — Basis of results (give model name if used)_{;i};
- 7.6.2.5 (5) — Scenario (explosion, fire, toxic gas release, or liquid spill and evaporation)_{;i};
- 7.6.2.6 (6) — Quantity released in pounds_{;i};
- 7.6.2.7 (7) — Release rate_{;i};
- 7.6.2.8 (8) — Release duration_{;i};
- 7.6.2.9 (9) — Wind speed and atmospheric stability class (toxics only)_{;i};
- 7.6.2.10 (10) — Topography (toxics only)_{;i};
- 7.6.2.11 (11) — Distance to endpoint_{;i};
- 7.6.2.12 (12) — Public and environmental receptors within the distance_{;i};
- 7.6.2.13 (13) — Passive mitigation considered_{;i}; and
- 7.6.2.14 (14) — Active mitigation considered (alternative releases only)_{;i};
- 7.7 ~~68.168~~ Five-year accident history.
The owner or operator shall submit in the RMP the information provided in §~~68.42(b)2.9.2~~ on each accident covered by §~~68.42(a)2.9.1~~.
- 7.8 ~~68.170~~ Prevention program/Program 2.
- 7.8.1 (a) For each Program 2 process, the owner or operator shall provide in the RMP the information indicated in paragraphs ~~(b)7.8.2~~ through ~~(k)7.8.11~~ of this section. If the same information applies to more than one covered process, the owner or operator may provide the information only once, but shall indicate to which processes the information applies.
- 7.8.2 ~~(b)~~ The five- or six-digit NAICS code that most closely corresponds to the process.
- 7.8.3 ~~(e)~~ The name_(s) of the chemical_(s) covered.
- 7.8.4 ~~(d)~~ The date of the most recent review or revision of the safety information and a list of Federal, or state, ~~District, or other local~~ regulations or industry-specific design codes and standards used to demonstrate compliance with the safety information requirement.
- 7.8.5 ~~(e)~~ The date of completion of the most recent hazard review or update.
- 7.8.5.1 (1) The expected date of completion of any changes resulting from the hazard review_{;i};
- 7.8.5.2 (2) Major hazards identified_{;i};

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

- 7.8.5.3 ~~(3)~~ Process controls in use;_i
- 7.8.5.4 ~~(4)~~ Mitigation systems in use;_i
- 7.8.5.5 ~~(5)~~ Monitoring and detection systems in use;_i and
- 7.8.5.6 ~~(6)~~ Changes since the last hazard review.
- 7.8.6 ~~(f)~~ The date of the most recent review or revision of operating procedures.
- 7.8.7 ~~(g)~~ The date of the most recent review or revision of training programs;
- 7.8.7.1 ~~(1)~~ The type of training provided— classroom, classroom plus on the job, on the job;_i and
- 7.8.7.2 ~~(2)~~ The type of competency testing used.
- 7.8.8 ~~(h)~~ The date of the most recent review or revision of maintenance procedures and the date of the most recent equipment inspection or test and the equipment inspected or tested.
- 7.8.9 ~~(i)~~ The date of the most recent compliance audit ~~and~~_i the expected date of completion of any changes resulting from the compliance audit, and identify whether the most recent compliance audit was a third-party audit, pursuant to sections 3.6 and 3.7.
- 7.8.10 ~~(j)~~ The completion date of the most recent incident investigation and the expected date of completion of any changes resulting from the investigation.
- 7.8.11 ~~(k)~~ The date of the most recent change that triggered a review or revision of safety information, the hazard review, operating or maintenance procedures, or training.
- 7.9 ~~68.175~~ Prevention program/Program 3.
- 7.9.1 ~~(a)~~ For each Program 3 process, the owner or operator shall provide the information indicated in paragraphs ~~(b)~~7.9.2 through ~~(p)~~7.9.16 of this section. If the same information applies to more than one covered process, the owner or operator may provide the information only once, but shall indicate to which processes the information applies.
- 7.9.2 ~~(b)~~ The five- or six-digit NAICS code that most closely corresponds to the process.
- 7.9.3 ~~(c)~~ The name(s) of the substance(s) covered.
- 7.9.4 ~~(d)~~ The date on which the safety information was last reviewed or revised.
- 7.9.5 ~~(e)~~ The most recent process hazard analysis (PHA) or PHA update and revalidation information, pursuant to §4.2, including:
- ~~7.9.4.1~~7.9.5.1 The date of completion of the most recent PHA or update and the technique used;_i
- ~~(1)~~ The expected date of completion of any changes resulting from the PHA,
- ~~7.9.4.2~~7.9.5.2 ~~(2)~~ Major hazards identified;_i
- ~~7.9.4.3~~7.9.5.3 ~~(3)~~ Process controls in use;_i
- ~~7.9.4.4~~7.9.5.4 ~~(4)~~ Mitigation systems in use;_i
- ~~7.9.4.5~~7.9.5.5 ~~(5)~~ Monitoring and detection systems in use, ~~and~~_i
- ~~7.9.4.6~~7.9.5.6 ~~(6)~~ Changes since the last PHA;_i and
- 7.9.5.7 ~~(f)~~ Inherently safer technology or design measures implemented since the last PHA, if any, and the technology category (substitution, minimization, simplification and/or moderation).
- ~~7.9.5~~7.9.6 The date of the most recent review or revision of operating procedures.
- ~~7.9.6~~7.9.7 ~~(g)~~ The date of the most recent review or revision of training programs;_i
- ~~7.9.6.1~~7.9.7.1 ~~(1)~~ The type of training provided— classroom, classroom plus on the job, on the job;_i and

[If adopted, this version would amend the June 2001 version of Regulation 5.15]

~~7.9.6.27.9.7.2 (2)~~ The type of competency testing used.

~~7.9.77.9.8 (h)~~ The date of the most recent review or revision of maintenance procedures and the date of the most recent equipment inspection or test and the equipment inspected or tested.

~~7.9.87.9.9 (i)~~ The date of the most recent change that triggered management of change procedures and the date of the most recent review or revision of management of change procedures.

~~7.9.97.9.10(j)~~ The date of the most recent pre-startup review.

~~7.9.107.9.11 (k)~~ The date of the most recent compliance audit ~~and~~, the expected date of completion of any changes resulting from the compliance audit, and identify whether the most recent compliance audit was a third-party audit, pursuant to sections 4.8 and 4.9.

~~7.9.117.9.12 (l)~~ The completion date of the most recent incident investigation and the expected date of completion of any changes resulting from the investigation.

~~7.9.127.9.13 (m)~~ The date of the most recent review or revision of employee participation plans;

~~7.9.137.9.14 (n)~~ The date of the most recent review or revision of hot work permit procedures;

~~7.9.147.9.15 (o)~~ The date of the most recent review or revision of contractor safety procedures; and

~~7.9.157.9.16 (p)~~ The date of the most recent evaluation of contractor safety performance.

7.10 ~~68.180~~ Emergency response program and exercises.

7.10.1 ~~(a)~~ The owner or operator shall provide in the RMP ~~the following information:~~

~~(1) Do you have a written emergency response plan?;~~

~~(2) Does the plan include specific actions to be taken in response to an accidental releases of a regulated substance?;~~

~~(3) Does the plan include procedures for informing the public and local agencies responsible for responding to accidental releases?;~~

~~(4) Does the plan include information on emergency health care?;~~

~~7.10.1.1 (5)~~ Name, organizational affiliation, phone number, and email address of local emergency planning and response organizations with which the stationary source last coordinated emergency response efforts, pursuant to §1.3.6.3 or §5.2;

~~7.10.1.2~~ The date of the most recent coordination with the local emergency response organizations, pursuant to §5.2 and

~~7.10.1.3~~ A list of Federal or state emergency plan requirements to which the stationary source is subject.

~~7.10.2~~ The owner or operator shall identify in the RMP whether the facility is a responding stationary source or a non-responding stationary source, pursuant to §5.1.

~~7.10.2.1~~ For non-responding stationary sources, the owner or operator shall identify:

~~7.10.2.1.1~~ For stationary sources with any regulated toxic substance held in a process above the threshold quantity, whether the stationary source is included in the

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community emergency response plan developed under 42 U.S.C. 11003, pursuant to §5.1.2.1;

7.10.2.1.2 For stationary sources with only regulated flammable substances held in a process above the threshold quantity, the date of the most recent coordination with the local fire department, pursuant to §5.1.2.2;

7.10.2.1.3 What mechanisms are in place to notify the public and emergency responders when there is a need for emergency response; and

7.10.2.1.4 The date of the most recent notification exercise, as required in §5.4.1.

7.10.2.2 For responding stationary sources, the owner or operator shall identify:

The date of the most recent review ~~or~~and update of ~~the emergency response plan,~~

~~and~~

~~(6) The date of the most recent emergency response training for employees.~~

~~(b) The owner or operator shall provide the name and telephone number of the local~~

~~7.10.1.1.17.10.2.2.1 agency with which emergency response activities and the emergency response plan is, pursuant to §5.3.1.4;~~

~~coordinated.~~

~~(e) The owner or operator shall list other Federal, state, District, or other local emergency plan requirements to which the stationary source is subject.~~

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7.10.2.2.2 68.185 The date of the most recent notification exercise, as required in §5.4.1;

7.10.2.3 The date of the most recent field exercise, as required in §5.4.2.1; and

7.10.2.4 The date of the most recent tabletop exercise, as required in §5.4.2.2.

7.11 Certification.

7.11.1 ~~(a)~~ For Program 1 processes, the owner or operator shall submit in the RMP the certification statement provided in §~~68.12(b)(1.4).~~2.4.

7.11.2 ~~(b)~~ For all other covered processes, the owner or operator shall submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete.

7.12 ~~68.190~~ Updates.

~~(a)~~ The owner or operator shall review and update the RMP as specified in paragraph ~~(b)~~

7.12.1 7.12.2 of this section and submit it ~~to the District and EPA in~~ in the method and format to the central point specified by the District ~~and EPA, respectively, prior to June 21, 1999~~as of the date of submission.

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- 7.12.2 ~~(b)~~ The owner or operator of a stationary source shall revise and update the RMP submitted under §~~68.1507.1~~ as follows:
- 7.12.2.1 ~~(1)~~ At least once every five years from the date of its initial submission or most recent update required by paragraphs ~~(b)(7.12.2.2)~~ through ~~(b)(7.12.2.7)~~ of this section, whichever is later. For purposes of determining the date of initial submissions, RMPs submitted before June 21, 1999 are considered to have been submitted on that date.
- 7.12.2.2 ~~(2)~~ No later than ~~3~~three years after a newly regulated substance is first listed by EPA.;
- 7.12.2.3 ~~(3)~~ No later than the date on which a new regulated substance is first present in an already covered process above a threshold quantity.;
- 7.12.2.4 ~~(4)~~ No later than the date on which a regulated substance is first present above a threshold quantity in a new process.;
- 7.12.2.5 ~~(5)~~ Within ~~6~~six months of a change that requires a revised PHA or hazard review.;
- 7.12.2.6 ~~(6)~~ Within ~~6~~six months of a change that requires a revised offsite consequence analysis as provided in §~~68.36.1.26~~; and
- 7.12.2.7 ~~(7)~~ Within ~~6~~six months of a change that alters the Program level that applied to any covered process.
- 7.12.3 ~~(e)~~ If a stationary source is no longer subject to this ~~Part~~part, the owner or operator shall submit a ~~revised de-~~registration to the District ~~and~~& EPA within ~~6~~six months indicating that the stationary source is no longer covered. Prior to de-registration the owner or operator shall meet applicable reporting and incident investigation requirements in accordance with sections 2.9, 3.8, and/or 4.10.

7.13 Subpart H—Required corrections.

The owner or operator of a stationary source for which a RMP was submitted shall correct the RMP as follows:

- 7.13.1 New accident history information—For any accidental release meeting the five-year accident history reporting criteria of §2.9 and occurring after April 9, 2004, the owner or operator shall submit the data required under sections 7.7, 7.8.10, and 7.9.12 with respect to that accident within six months of the release or by the time the RMP is updated under §7.12, whichever is earlier.
- 7.13.2 Emergency contact information—Beginning June 21, 2004, within one month of any change in the emergency contact information required under §7.5.2.6, the owner or operator shall submit a correction of that information.

SECTION 8 Other Requirements

- 8.1 ~~68.200~~ Recordkeeping.
The owner or operator shall maintain records supporting the implementation of this ~~Part~~part ~~for 5~~regulation at the stationary source for five years, unless otherwise provided in ~~Subpart D of this Part~~section 4.
- 8.2 ~~68.210~~ Availability of information to the public.
- 8.2.1 ~~(a)~~RMP availability. The RMP required under ~~Subpart G~~section 7 of this ~~Part~~regulation shall be available to the public under ~~42~~ U.S.C. §7414(c) and Regulation 1.08 Administrative Procedures Section 6.
- 8.2.2 ~~(b)~~Public meetings. The owner or operator of a stationary source shall hold a public meeting to provide information required under §2.9 as well as other relevant chemical

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- hazard information, such as that described in paragraph 8.2.2 of this section, no later than 90 days after any accident subject to reporting under §2.9.
- 8.2.28.2.3 Classified information. The disclosure of information classified ~~information or restricted~~ by the Department of Defense or other ~~Federal, State, or local~~ agencies or contractors of such agencies shall be controlled by applicable laws, regulations, or executive orders concerning the release of classified or restricted information.
- 8.3 ~~information. 68.215~~ Permit content and District air permitting authority or designated agency requirements.
- 8.3.1 ~~(a)~~ These requirements apply to any stationary source subject to ~~40 CFR Part 68~~ this regulation and either Regulation 2.16 Title V Operating Permits, Regulation 2.17 Federally Enforceable District Origin Operating Permits, or Regulation 2.03 Permit Requirements - Non-Title V Construction and Operating Permits and Demolition/Renovation Permits. The Regulation 2.16, 2.17, or 2.03 permit for the stationary source shall contain:
- 8.3.1.1 ~~(1)~~ A statement listing this ~~Part~~ regulation as an applicable requirement;
- 8.3.1.2 ~~(2)~~ Conditions that require the source owner or operator to submit:
- 8.3.1.2.1 ~~(i)~~ A compliance schedule for meeting the requirements of this ~~Part~~ regulation by the date provided in ~~§68.10(a), section 1.3.1~~ or;
- 8.3.1.2.2 ~~(ii)~~ As part of the compliance certification submitted under Regulation 2.116 section 4.3.5, a certification statement that the source is in compliance with all requirements of this part, including the registration and submission of the RMP.
- ~~requirements of this Part, including the registration and submission of the RMP, as required by §68.185(a) or (b).~~
- 8.3.2 ~~(b)~~ The owner or operator shall submit any additional relevant information requested by the air permitting authority or designated agency.
- 8.3.3 ~~the District. (c)~~ For Regulation 2.16, 2.17, or 2.03 permits issued prior to the deadline for registering and submitting the RMP and which do not contain permit conditions described in paragraph ~~(a)~~ 8.3.1 of this section, the owner or operator or District shall initiate permit revision or reopening to incorporate the terms and conditions consistent with paragraph 8.3.1 of this section.
- 8.3.4 ~~(e) of this section to a local agency other than the District.~~ An up-to-date copy of any delegation instrument shall be maintained by the District.
- 8.3.5 ~~(e)~~ The District ~~or the agency designated by delegation or agreement under paragraph (d) of this section~~ shall, at a minimum:
- 8.3.5.1 ~~(1)~~ Verify that the source owner or operator has registered and submitted an RMP or a revised plan when required by this part;
- 8.3.5.2 ~~or a revised plan when required by this Part.~~ ~~(2)~~ Verify that the source owner or operator has submitted a source certification or in its absence has submitted a compliance schedule consistent with paragraph 8.3.1.2 of this section;
- 8.3.5.3 ~~(a)~~ ~~(2) of this section,~~ ~~(3)~~ For some or all of the sources subject to this section, use one or more mechanisms such as, but not limited to, a completeness check,

- source audits, record reviews, or facility inspections to ensure that permitted sources are in compliance with the requirements of this ~~Part~~ ~~part~~; and
- 8.3.5.4 ~~(4)~~ Initiate enforcement action based on paragraphs ~~(e)(8.3.5.1)~~ and ~~(e)(8.3.5.2)~~ of this section as appropriate.
- 8.4 ~~68.220~~ Audits.
- 8.4.1 ~~(a)~~ In addition to inspections for the purpose of regulatory development and enforcement of the Act, the ~~District~~ ~~District~~ shall periodically audit RMPs submitted under ~~subpart G~~ ~~section 7~~ of this ~~Part~~ ~~regulation~~ to review the adequacy of such RMPs and require revisions of RMPs when necessary to ensure compliance with ~~Subpart G~~ ~~section 7~~ of this ~~Part~~ ~~part~~.
- 8.4.2 ~~(b)~~ The District shall select stationary sources for audits based on any of the following ~~criteria~~:
- 8.4.2.1 ~~criteria:~~ ~~(1)~~ Accident history of the stationary source;_i
- 8.4.2.2 ~~(2)~~ Accident history of other stationary sources in the same industry;_i
- 8.4.2.3 ~~(3)~~ Quantity of regulated substances present at the stationary source;_i
- 8.4.2.4 ~~(4)~~ Location of the stationary source and its proximity to the public and environmental receptors;_i
- 8.4.2.5 ~~(5)~~ The presence of specific regulated substances;_i
- 8.4.2.6 ~~(6)~~ The hazards identified in the RMP;_i and
- 8.4.2.7 ~~(7)~~ A plan providing for neutral, random oversight.
- 8.4.3 ~~(e)~~ Exemption from audits. A stationary source with a Star or Merit ranking under OSHA's voluntary protection program ~~may~~ ~~shall~~ be exempt from audits under paragraph ~~8.4.2.2 and 8.4.2.7 of this section~~.
- 8.4.4 ~~(b)(2) and (b)(7) of this section.~~ ~~(d)~~ The District shall have access to the stationary source, supporting documentation, and any area where an accidental release could occur.
- 8.4.5 ~~(e)~~ Based on the audit, the District may issue the owner or operator of a stationary source a written preliminary determination of necessary revisions to the stationary source's RMP to ensure that the RMP meets the criteria of ~~Subpart G~~ ~~section 7~~ of this ~~Part~~ ~~part~~. The preliminary determination shall include an explanation for the basis for the revisions, reflecting industry standards and guidelines (such as AIChE/CCPS guidelines and ASME and API standards) to the extent that such standards and guidelines are applicable, and shall include a timetable for their implementation.
- 8.4.6 ~~(f)~~ *Written response to a preliminary determination.*
- 8.4.6.1 ~~(1)~~ The owner or operator shall respond in writing to a preliminary determination made in accordance with paragraph ~~(e)8.4.5~~ of this section. The response shall state the owner or operator will implement the revisions contained in the preliminary determination in accordance with the timetable included in the preliminary determination or shall state that the owner or operator rejects the revisions in whole or in part. For each rejected revision, the owner or operator shall explain the basis for rejecting ~~the~~ ~~such~~ revision. ~~Any~~ ~~Such~~ explanation may include substitute revisions.
- 8.4.6.2 ~~(2)~~ The written response under paragraph ~~(f)(8.4.6.1)~~ of this section shall be received by the District within 90 days of the issue of the preliminary determination or a shorter period of time as the District specifies in the preliminary determination as necessary to protect public health and the

environment. Prior to the written response being due and upon written request from the owner or operator, the District may provide in writing additional time for the response to be received.

- 8.4.7 ~~(g)~~ After providing the owner or operator an opportunity to respond under paragraph ~~(f)~~8.4.6 of this section, the District may issue the owner or operator a written final determination of necessary revisions to the stationary source's RMP. The final determination may adopt or modify the revisions contained in the preliminary determination under paragraph ~~(e)~~8.4.5 of this section or may adopt or modify the substitute revisions provided in the response under paragraph ~~(f)~~8.4.6 of this section. A final determination that adopts a revision rejected by the owner or operator shall include an explanation of the basis for the revision. A final determination that fails to adopt a substitute revision provided under paragraph ~~(f)~~8.4.6 of this section shall include an explanation of the basis for finding asuch substitute revision unreasonable.
- 8.4.8 ~~(h)~~ Thirty days after completion of the actions detailed in the implementation schedule set in the final determination under paragraph ~~(g)~~8.4.7 of this section, the owner or operator shall be in violation of ~~Subpart G~~section 7 of this ~~Part~~regulation and this section unless the owner or operator revises the RMP prepared under ~~Subpart G~~section 7 of this ~~Part~~regulation as required by the final determination, and submits the revised RMP as required under ~~§68.1507.1~~.
- 8.4.9 ~~(i)~~ The public shall have access to the preliminary determinations, responses, and final determinations under this section in a manner consistent with ~~§68.2108.2~~.
- 8.4.10 ~~(j)~~ Nothing in this section shall preclude, limit, or interfere in any way with the authority of EPA, the state, or the District to exercise its enforcement, investigatory, and information gathering authorities concerning this ~~Part~~regulation under the Act.

Adopted v1/10-21-98; effective 10-21-98; amended v2/7-21-99, v3/6-20-01, v4/**_**_**.

Appendix A to Regulation 5.15—Table of Toxic Endpoints
[As defined in § 2.2 of this part]

<u>CAS No.</u>	<u>Chemical name</u>	<u>Toxic endpoint (mg/L)</u>
<u>107-02-8</u>	<u>Acrolein [2-Propenal]</u>	<u>0.0011</u>
<u>107-13-1</u>	<u>Acrylonitrile [2-Propenenitrile]</u>	<u>0.076</u>
<u>814-68-6</u>	<u>Acrylyl chloride [2-Propenoyl chloride]</u>	<u>0.00090</u>
<u>107-18-6</u>	<u>Allyl alcohol [2-Propen-1-ol]</u>	<u>0.036</u>
<u>107-11-9</u>	<u>Allylamine [2-Propen-1-amine]</u>	<u>0.0032</u>
<u>7664-41-7</u>	<u>Ammonia (anhydrous)</u>	<u>0.14</u>
<u>7664-41-7</u>	<u>Ammonia (conc 20% or greater)</u>	<u>0.14</u>
<u>7784-34-1</u>	<u>Arsenous trichloride</u>	<u>0.010</u>
<u>7784-42-1</u>	<u>Arsine</u>	<u>0.0019</u>
<u>10294-34-5</u>	<u>Boron trichloride [Borane, trichloro-]</u>	<u>0.010</u>
<u>7637-07-2</u>	<u>Boron trifluoride [Borane, trifluoro-]</u>	<u>0.028</u>
<u>353-42-4</u>	<u>Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro[oxybis[methane]]-, T-4</u>	<u>0.023</u>
<u>7726-95-6</u>	<u>Bromine</u>	<u>0.0065</u>
<u>75-15-0</u>	<u>Carbon disulfide</u>	<u>0.16</u>
<u>7782-50-5</u>	<u>Chlorine</u>	<u>0.0087</u>
<u>10049-04-4</u>	<u>Chlorine dioxide [Chlorine oxide (ClO₂)]</u>	<u>0.0028</u>
<u>67-66-3</u>	<u>Chloroform [Methane, trichloro-]</u>	<u>0.49</u>
<u>542-88-1</u>	<u>Chloromethyl ether [Methane, oxybis[chloro-]</u>	<u>0.00025</u>
<u>107-30-2</u>	<u>Chloromethyl methyl ether [Methane, chloromethoxy-]</u>	<u>0.0018</u>
<u>4170-30-3</u>	<u>Crotonaldehyde [2-Butenal]</u>	<u>0.029</u>
<u>123-73-9</u>	<u>Crotonaldehyde, (E)-, [2-Butenal, (E)-]</u>	<u>0.029</u>
<u>506-77-4</u>	<u>Cyanogen chloride</u>	<u>0.030</u>
<u>108-91-8</u>	<u>Cyclohexylamine [Cyclohexanamine]</u>	<u>0.16</u>
<u>19287-45-7</u>	<u>Diborane</u>	<u>0.0011</u>
<u>75-78-5</u>	<u>Dimethyldichlorosilane [Silane, dichlorodimethyl-]</u>	<u>0.026</u>
<u>57-14-7</u>	<u>1,1-Dimethylhydrazine [Hydrazine, 1,1-dimethyl-]</u>	<u>0.012</u>

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<u>106-89-8</u>	<u>Epichlorohydrin [Oxirane, (chloromethyl)-]</u>	<u>0.076</u>
<u>107-15-3</u>	<u>Ethylenediamine [1,2-Ethanediamine]</u>	<u>0.49</u>
<u>151-56-4</u>	<u>Ethyleneimine [Aziridine]</u>	<u>0.018</u>
<u>75-21-8</u>	<u>Ethylene oxide [Oxirane]</u>	<u>0.090</u>
<u>7782-41-4</u>	<u>Fluorine</u>	<u>0.0039</u>
<u>50-00-0</u>	<u>Formaldehyde (solution)</u>	<u>0.012</u>
<u>110-00-9</u>	<u>Furan</u>	<u>0.0012</u>
<u>302-01-2</u>	<u>Hydrazine</u>	<u>0.011</u>
<u>7647-01-0</u>	<u>Hydrochloric acid (conc 37% or greater)</u>	<u>0.030</u>
<u>74-90-8</u>	<u>Hydrocyanic acid</u>	<u>0.011</u>
<u>7647-01-0</u>	<u>Hydrogen chloride (anhydrous) [Hydrochloric acid]</u>	<u>0.030</u>
<u>7664-39-3</u>	<u>Hydrogen fluoride/Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid]</u>	<u>0.016</u>
<u>7783-07-5</u>	<u>Hydrogen selenide</u>	<u>0.00066</u>
<u>7783-06-4</u>	<u>Hydrogen sulfide</u>	<u>0.042</u>
<u>13463-40-6</u>	<u>Iron, pentacarbonyl- [Iron carbonyl (Fe(CO)₅), (TB-5-11)-]</u>	<u>0.00044</u>
<u>78-82-0</u>	<u>Isobutyronitrile [Propanenitrile, 2-methyl-]</u>	<u>0.14</u>
<u>108-23-6</u>	<u>Isopropyl chloroformate [Carbonochloride acid, 1-methylethyl ester]</u>	<u>0.10</u>
<u>126-98-7</u>	<u>Methacrylonitrile [2-Propenenitrile, 2-methyl-]</u>	<u>0.0027</u>
<u>74-87-3</u>	<u>Methyl chloride [Methane, chloro-]</u>	<u>0.82</u>
<u>79-22-1</u>	<u>Methyl chloroformate [Carbonochloridic acid, methylester]</u>	<u>0.0019</u>
<u>60-34-4</u>	<u>Methyl hydrazine [Hydrazine, methyl-]</u>	<u>0.0094</u>
<u>624-83-9</u>	<u>Methyl isocyanate [Methane, isocyanato-]</u>	<u>0.0012</u>
<u>74-93-1</u>	<u>Methyl mercaptan [Methanethiol]</u>	<u>0.049</u>
<u>556-64-9</u>	<u>Methyl thiocyanate [Thiocyanic acid, methyl ester]</u>	<u>0.085</u>
<u>75-79-6</u>	<u>Methyltrichlorosilane [Silane, trichloromethyl-]</u>	<u>0.018</u>
<u>13463-39-3</u>	<u>Nickel carbonyl</u>	<u>0.00067</u>
<u>7697-37-2</u>	<u>Nitric acid (conc 80% or greater)</u>	<u>0.026</u>
<u>10102-43-9</u>	<u>Nitric oxide [Nitrogen oxide (NO)]</u>	<u>0.031</u>
<u>8014-95-7</u>	<u>Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur]</u>	<u>0.010</u>

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	<u>trioxide]</u>	
<u>79-21-0</u>	<u>Peracetic acid [Ethaneperoxoic acid]</u>	<u>0.0045</u>
<u>594-42-3</u>	<u>Perchloromethylmercaptan [Methanesulfenyl chloride, trichloro-]</u>	<u>0.0076</u>
<u>75-44-5</u>	<u>Phosgene [Carbonic dichloride]</u>	<u>0.00081</u>
<u>7803-51-2</u>	<u>Phosphine</u>	<u>0.0035</u>
<u>10025-87-3</u>	<u>Phosphorus oxychloride [Phosphoryl chloride]</u>	<u>0.0030</u>
<u>7719-12-2</u>	<u>Phosphorus trichloride [Phosphorous trichloride]</u>	<u>0.028</u>
<u>110-89-4</u>	<u>Piperidine</u>	<u>0.022</u>
<u>107-12-0</u>	<u>Propionitrile [Propanenitrile]</u>	<u>0.0037</u>
<u>109-61-5</u>	<u>Propyl chloroformate [Carbonochloridic acid, propylester]</u>	<u>0.010</u>
<u>75-55-8</u>	<u>Propyleneimine [Aziridine, 2-methyl-]</u>	<u>0.12</u>
<u>75-56-9</u>	<u>Propylene oxide [Oxirane, methyl-]</u>	<u>0.59</u>
<u>7446-09-5</u>	<u>Sulfur dioxide (anhydrous)</u>	<u>0.0078</u>
<u>7783-60-0</u>	<u>Sulfur tetrafluoride [Sulfur fluoride (SF4), (T-4)-]</u>	<u>0.0092</u>
<u>7446-11-9</u>	<u>Sulfur trioxide</u>	<u>0.010</u>
<u>75-74-1</u>	<u>Tetramethyllead [Plumbane, tetramethyl-]</u>	<u>0.0040</u>
<u>509-14-8</u>	<u>Tetranitromethane [Methane, tetranitro-]</u>	<u>0.0040</u>
<u>7750-45-0</u>	<u>Titanium tetrachloride [Titanium chloride (TiCl4) (T-4)-]</u>	<u>0.020</u>
<u>584-84-9</u>	<u>Toluene 2,4-diisocyanate [Benzene, 2,4-diisocyanato-1-methyl-]</u>	<u>0.0070</u>
<u>91-08-7</u>	<u>Toluene 2,6-diisocyanate [Benzene, 1,3-diisocyanato-2-methyl-]</u>	<u>0.0070</u>
<u>26471-62-5</u>	<u>Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-]</u>	<u>0.0070</u>
<u>75-77-4</u>	<u>Trimethylchlorosilane [Silane, chlorotrimethyl-]</u>	<u>0.050</u>
<u>108-05-4</u>	<u>Vinyl acetate monomer [Acetic acid ethenyl ester]</u>	<u>0.26</u>

ⁱ Note to the redline-strikeout version of Version 4, Draft 01: Although not consistently reflected in highlighted changes throughout, all section numbering has been updated.