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Title 40 —Protection of Environment
Chapter I —Environmental Protection Agency
Subchapter C —Air Programs

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PART 68—CHEMICAL ACCIDENT PREVENTION PROVISIONS

Authority: 42 U.S.C. 7412(r), 7601(a)(1), 7661-7661f.

Source: 59 FR 4493, Jan. 31, 1994, unless otherwise noted.

Subpart A—General

§ 68.1 Scope.

This part sets forth the list of regulated substances and thresholds, the petition process for adding or deleting substances to the list of regulated substances, the requirements for owners or operators of stationary sources concerning the prevention of accidental releases, and the State accidental release prevention programs approved under section 112(r). The list of substances, threshold quantities, and accident prevention regulations promulgated under this part do not limit in any way the general duty provisions under section 112(r)(1).

§ 68.3 Definitions.

For the purposes of this part:

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

Act means the Clean Air Act as amended (42 U.S.C. 7401 *et seq.*)

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).

Administrative controls mean written procedural mechanisms used for hazard control.

Administrator means the administrator of the U.S. Environmental Protection Agency.

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

API means the American Petroleum Institute.

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.

ASME means the American Society of Mechanical Engineers.

CAS means the Chemical Abstracts Service.

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.

CBI means confidential business information.

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.”

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

Covered process means a process that has a regulated substance present in more than a threshold quantity as determined under § 68.115.

Crude oil means any naturally occurring, unrefined petroleum liquid.

Designated agency means the state, local, or Federal agency designated by the state under the provisions of § 68.215(d) .

DOT means the United States Department of Transportation.

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) , as a result of an accidental release and that can be identified on local U. S. Geological Survey maps.

Field gas means gas extracted from a production well before the gas enters a natural gas processing plant.

Hot work means work involving electric or gas welding, cutting, brazing, or similar flame or spark-producing operations.

Implementing agency means the state or local agency that obtains delegation for an accidental release prevention program under subpart E, 40 CFR part 63. The implementing agency may, but is not required to, be the state or local air permitting agency. If no state or local agency is granted delegation, EPA will be the implementing agency for that state.

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.

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.

LEPC means local emergency planning committee as established under 42 U.S.C. 11001(c).

Major change means introduction of a new process, process equipment, or regulated substance, an alteration of process chemistry that results in any change to safe operating limits, or other alteration that introduces a new hazard.

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.

Medical treatment means treatment, other than first aid, administered by a physician or registered professional personnel under standing orders from a physician.

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.

NAICS means North American Industry Classification System.

NFPA means the National Fire Protection Association.

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 North American Industrial Classification System (NAICS) code 21112 (previously Standard Industrial Classification (SIC) code 1321).

Natural hazard means meteorological, climatological, environmental or geological phenomena that have the potential for negative impact, accounting for impacts due to climate change. Examples of such hazards include, but are not limited to, avalanche, coastal flooding, cold wave, drought, earthquake, hail, heat wave, hurricane, ice storm, landslide, lightning, riverine flooding, strong wind, tornado, tsunami, volcanic activity, wildfire, and winter weather.

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.

OSHA means the U.S. Occupational Safety and Health Administration. Owner or operator means any person who owns, leases, operates, controls, or supervises a stationary source.

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.

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 transportation fuels (such as gasoline, diesel fuels, and jet fuels), heating fuels (such as kerosene, fuel gas distillate, and fuel oils), or lubricants; Separating petroleum; or 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.

Population means the public.

Practicability means the capability of being successfully accomplished within a reasonable time, accounting for environmental, legal, social, technological, and economic factors. Environmental factors would include consideration of potential transferred risks for new risk reduction measures.

Procedural measures mean risk management measures such as policies, operating procedures, training, administrative controls, and emergency response actions to prevent or minimize incidents.

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.

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.

Public means any person except employees or contractors at the stationary source.

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.

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

Replacement in kind means a replacement that satisfies the design specifications.

Retail facility means a stationary source at which more than one-half of the annual income (in the previous calendar or fiscal year) 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.

RMP means the risk management plan required under subpart G of this part.

Root cause means a fundamental, underlying, system-related reason why an incident occurred that identifies a correctable failure(s) in management systems, and if applicable, in process design.

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. 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 192, 193, or 195, 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.

Third-party audit means a compliance audit conducted pursuant to the requirements of § 68.59 and/or § 68.80, performed or led by an entity (individual or firm) meeting the competency and independence requirements described in § 68.59(c) or § 68.80(c).

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

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.

Vessel means any reactor, tank, drum, barrel, cylinder, vat, kettle, boiler, pipe, hose, or other container.

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).

[59 FR 4493, Jan. 31, 1994, as amended at 61 FR 31717, June 20, 1996; 63 FR 644, Jan. 6, 1998; 64 FR 979, Jan. 6, 1999; 65 FR 13250, Mar. 13, 2000; 82 FR 4696, Jan. 13, 2017; 84 FR 69913, Dec. 19, 2019; 89 FR 17685, Mar. 11, 2024]

§ 68.10 Applicability.

- (a) Except as provided in paragraphs (b) through (i) 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, shall comply with the requirements of this part no later than the latest of the following dates:
 - (1) June 21, 1999;
 - (2) Three years after the date on which a regulated substance is first listed under § 68.130;
 - (3) The date on which a regulated substance is first present above a threshold quantity in a process; or
 - (4) For any revisions to this part, the effective date of the final rule that revises this part.
- (b) By March 14, 2018, the owner or operator of a stationary source shall comply with the emergency response coordination activities in § 68.93, as applicable.
- (c) Within three years of when the owner or operator determines that the stationary source is subject to the emergency response program requirements of § 68.95, pursuant to § 68.90(a), the owner or operator must develop and implement an emergency response program in accordance with § 68.95.
- (d) By December 19, 2023, the owner or operator shall have developed plans for conducting emergency response exercises in accordance with provisions of § 68.96, as applicable.
- (e) The owner or operator of a stationary source shall comply with the public meeting requirement in § 68.210(b) within 90 days of any RMP reportable accident at the stationary source with known offsite impacts specified in § 68.42(a), that occurs after March 15, 2021.
- (f) After December 19, 2024, for any risk management plan initially submitted as required by § 68.150(b)(2) or (3) or submitted as an update required by § 68.190, the owner or operator shall comply with the following risk management plan provisions of subpart G of this part:
 - (1) Reporting a public meeting after an RMP reportable accident under § 68.160(b)(21) as promulgated on December 19, 2019;
 - (2) Reporting emergency response program information under § 68.180(a)(1) as promulgated on December 19, 2019;
 - (3) Reporting emergency response program information under § 68.180(a)(2) and (3) as promulgated on January 13, 2017, as applicable; and,
 - (4) Reporting emergency response program and exercises information under § 68.180(b) as promulgated on January 13, 2017, as applicable. The owner or operator shall submit dates of the most recent notification, field and tabletop exercises in the risk management plan, for exercises completed as required under § 68.96 at the time the risk management plan is either submitted under § 68.150(b)(2) or (3), or is updated under § 68.190.

- (g) By May 10, 2027, the owner or operator shall comply with the following provisions promulgated on May 10, 2024:
 - (1) Standby or backup power for continuous operation of monitoring equipment associated with prevention and detection of accidental releases from covered processes in §§ 68.50(a)(3) and 68.67(c)(3);
 - (2) Third-party audit provisions in §§ 68.58(f) through (h), 68.59, 68.79(f) through (h), and 68.80;
 - (3) Incident investigation root cause analysis provisions in §§ 68.60(h) and 68.81(h);
 - (4) Safer technology and alternatives analysis provisions in § 68.67(c)(9) and (h);
 - (5) Employee participation provisions in §§ 68.62 and 68.83;
 - (6) Emergency response provisions in §§ 68.90(b) and 68.95(a); and
 - (7) Availability of information provisions in § 68.210(d) through (h).
- (h) By March 15, 2027, or within 10 years of the date of an emergency response field exercise conducted between March 15, 2017, and August 31, 2022, in accordance with § 68.96(b)(1)(ii).
- (i) By May 10, 2028, the owner or operator shall comply with the risk management plan provisions of subpart G of this part promulgated on May 10, 2024.
- (j) A covered process is eligible for Program 1 requirements as provided in § 68.12(b) if it meets all of the following requirements:
 - (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:
 - (i) Death;
 - (ii) Injury; or
 - (iii) Response or restoration activities for an exposure of an environmental receptor;
 - (2) The distance to a toxic or flammable endpoint for a worst-case release assessment conducted under subpart B and § 68.25 is less than the distance to any public receptor, as defined in § 68.3; and
 - (3) Emergency response procedures have been coordinated between the stationary source and local emergency planning and response organizations.
- (k) A covered process is subject to Program 2 requirements if it does not meet the eligibility requirements of either paragraph (g) or paragraph (i) of this section.
- (l) A covered process is subject to Program 3 if the process does not meet the requirements of paragraph (g) of this section, and if either of the following conditions is met:
 - (1) The process is in NAICS code 32211, 32411, 32511, 325181, 325188, 325192, 325199, 325211, 325311, or 32532; or
 - (2) The process is subject to the OSHA process safety management standard, 29 CFR 1910.119.

- (m) 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.
- (n) The provisions of this part shall not apply to an Outer Continental Shelf ("OCS") source, as defined in 40 CFR 55.2.

[61 FR 31717, June 20, 1996, as amended at 63 FR 645, Jan. 6, 1998; 64 FR 979, Jan. 6, 1999; 82 FR 4696, Jan. 13, 2017; 84 FR 69913, Dec. 19, 2019; 89 FR 17686, Mar. 11, 2024]

§ 68.12 General requirements.

- (a) General requirements. The owner or operator of a stationary source subject to this part shall submit a single RMP, as provided in §§ 68.150 to 68.185. The RMP shall include a registration that reflects all covered processes.
- (b) Program 1 requirements. In addition to meeting the requirements of paragraph (a) of this section, the owner or operator of a stationary source with a process eligible for Program 1, as provided in § 68.10(g), shall:
 - (1) Analyze the worst-case release scenario for the process(es), as provided in § 68.25; document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in § 68.22(a); and submit in the RMP the worst-case release scenario as provided in § 68.165;
 - (2) Complete the five-year accident history for the process as provided in § 68.42 of this part and submit it in the RMP as provided in § 68.168;
 - (3) Ensure that response actions have been coordinated with local emergency planning and response agencies; and
 - (4) Certify in the RMP the following: "Based on the criteria in 40 CFR 68.10, 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(g)(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]."
- (c) Program 2 requirements. In addition to meeting the requirements of paragraph (a) of this section, the owner or operator of a stationary source with a process subject to Program 2, as provided in § 68.10(h), shall:
 - (1) Develop and implement a management system as provided in § 68.15;
 - (2) Conduct a hazard assessment as provided in §§ 68.20 through 68.42;
 - (3) Implement the Program 2 prevention steps provided in §§ 68.48 through 68.60 or implement the Program 3 prevention steps provided in §§ 68.65 through 68.87;

- (4) Coordinate response actions with local emergency planning and response agencies as provided in § 68.93;
 - (5) Develop and implement an emergency response program, and conduct exercises, as provided in §§ 68.90 to 68.96; and
 - (6) Submit as part of the RMP the data on prevention program elements for Program 2 processes as provided in § 68.170.
- (d) Program 3 requirements. In addition to meeting the requirements of paragraph (a) of this section, the owner or operator of a stationary source with a process subject to Program 3, as provided in § 68.10(i) shall:
- (1) Develop and implement a management system as provided in § 68.15;
 - (2) Conduct a hazard assessment as provided in §§ 68.20 through 68.42;
 - (3) Implement the prevention requirements of §§ 68.65 through 68.87;
 - (4) Coordinate response actions with local emergency planning and response agencies as provided in § 68.93;
 - (5) Develop and implement an emergency response program, and conduct exercises, as provided in §§ 68.90 to 68.96; and
 - (6) Submit as part of the RMP the data on prevention program elements for Program 3 processes as provided in § 68.175.

[61 FR 31718, June 20, 1996, as amended at 82 FR 4696, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019]

§ 68.15 Management.

- (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.
- (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.
- (c) When responsibility for implementing individual requirements of this part is assigned to persons other than the person identified under paragraph (b) 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.

[61 FR 31718, June 20, 1996]

Subpart B—Hazard Assessment

Source: 61 FR 31718, June 20, 1996, unless otherwise noted.

§ 68.20 Applicability.

The owner or operator of a stationary source subject to this part shall prepare a worst-case release scenario analysis as provided in § 68.25 of this part and complete the five-year accident history as provided in § 68.42. The owner or operator of a Program 2 and 3 process must comply with all sections in this subpart for these processes.

§ 68.22 Offsite consequence analysis parameters.

- (a) Endpoints. For analyses of offsite consequences, the following endpoints shall be used:
 - (1) Toxics. The toxic endpoints provided in appendix A of this part.
 - (2) Flammables. The endpoints for flammables vary according to the scenarios studied:
 - (i) Explosion. An overpressure of 1 psi.
 - (ii) Radiant heat/exposure time. A radiant heat of 5 kw/m² for 40 seconds.
 - (iii) Lower flammability limit. A lower flammability limit as provided in NFPA documents or other generally recognized sources.
- (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 may use the typical meteorological conditions for the stationary source.
- (c) Ambient temperature/humidity. For worst-case release analysis of a regulated toxic substance, the owner or operator shall use the highest daily maximum temperature in the previous three years and average humidity 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 may use 25 °C and 50 percent humidity as values for these variables. For analysis of alternative scenarios, the owner or operator may use typical temperature/humidity data gathered at the stationary source or at a local meteorological station.
- (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.
- (e) Surface roughness. The owner or operator shall use either urban or rural topography, 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.
- (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.
- (g) Temperature of released substance. For worst case, liquids other than gases 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.

§ 68.25 Worst-case release scenario analysis.

- (a) The owner or operator shall analyze and report in the RMP:
 - (1) For Program 1 processes, one worst-case release scenario for each Program 1 process;
 - (2) For Program 2 and 3 processes:
 - (i) One worst-case release scenario that is estimated to create the greatest distance in any direction to an endpoint provided in appendix A of this part resulting from an accidental release of regulated toxic substances from covered processes under worst-case conditions defined in § 68.22;
 - (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) resulting from an accidental release of regulated flammable substances from covered processes under worst-case conditions defined in § 68.22; and
 - (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) or (a)(2)(ii) of this section.
- (b) **Determination of worst-case release quantity.** The worst-case release quantity shall be the greater of the following:
 - (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) For substances in pipes, the greatest amount in a pipe, taking into account administrative controls that limit the maximum quantity.
- (c) **Worst-case release scenario—toxic gases.**
 - (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) 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) For gases handled as refrigerated liquids at ambient pressure:
 - (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;
 - (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 may assume that the quantity in the vessel or pipe, as determined under paragraph (b) 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) of this section.
- (d) **Worst-case release scenario—toxic liquids.**

- (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) of this section, is spilled instantaneously to form a liquid pool.
 - (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.
 - (ii) If the release would occur onto a surface that is not paved or smooth, the owner or operator may take into account the actual surface characteristics.
 - (2) The volatilization rate shall account for the highest daily maximum temperature occurring in the past three years, the temperature of the substance in the vessel, and the concentration of the substance if the liquid spilled is a mixture or solution.
 - (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 implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- (e) **Worst-case release scenario—flammable gases.** The owner or operator shall assume that the quantity of the substance, as determined under paragraph (b) 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.
- (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) 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) For flammable gases handled as refrigerated liquids at ambient pressure:
 - (i) If the released substance is not contained by passive mitigation systems or if the contained pool would have a depth of 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.
 - (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) 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) 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.

- (f) **Worst-case release scenario—flammable liquids.** The owner or operator shall assume that the quantity of the substance, as determined under paragraph (b) 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.
- (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) 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) of this section.
 - (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.
- (g) **Parameters to be applied.** The owner or operator shall use the parameters defined in § 68.22 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 implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- (h) **Consideration of passive mitigation.** Passive mitigation systems may be considered for the analysis of worst case provided that the mitigation system is capable of withstanding the release event triggering the scenario and would still function as intended.
- (i) **Factors in selecting a worst-case scenario.** Notwithstanding the provisions of paragraph (b) of this section, 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) beyond the stationary source boundary than the scenario provided under paragraph (b) of this section:
- (1) Smaller quantities handled at higher process temperature or pressure; and
 - (2) Proximity to the boundary of the stationary source.

[61 FR 31718, June 20, 1996, as amended at 64 FR 28700, May 26, 1999]

§ 68.28 Alternative release scenario analysis.

- (a) The number of scenarios. The owner or operator shall identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes.
- (b) **Scenarios to consider.**
- (1) For each scenario required under paragraph (a) of this section, the owner or operator shall select a scenario:
 - (i) That is more likely to occur than the worst-case release scenario under § 68.25; and

- (ii) That will reach an endpoint offsite, unless no such scenario exists.
- (2) Release scenarios considered should include, but are not limited to, the following, where applicable:
 - (i) Transfer hose releases due to splits or sudden hose uncoupling;
 - (ii) Process piping releases from failures at flanges, joints, welds, valves and valve seals, and drains or bleeds;
 - (iii) Process vessel or pump releases due to cracks, seal failure, or drain, bleed, or plug failure;
 - (iv) Vessel overfilling and spill, or overpressurization and venting through relief valves or rupture disks; and
 - (v) Shipping container mishandling and breakage or puncturing leading to a spill.
- (c) Parameters to be applied. The owner or operator shall use the appropriate parameters defined in § 68.22 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 implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request.
- (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.
- (e) Factors in selecting scenarios. The owner or operator shall consider the following in selecting alternative release scenarios:
 - (1) The five-year accident history provided in § 68.42; and
 - (2) Failure scenarios identified under § 68.50 or § 68.67.

§ 68.30 Defining offsite impacts—population.

- (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).
- (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.
- (c) **Data sources acceptable.** The owner or operator may use the most recent Census data, or other updated information, to estimate the population potentially affected.
- (d) **Level of accuracy.** Population shall be estimated to two significant digits.

§ 68.33 Defining offsite impacts—environment.

- (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) of this part.

- (b) **Data sources acceptable.** The owner or operator 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.

§ 68.36 Review and update.

- (a) The owner or operator shall review and update the offsite consequence analyses at least once every five years.
- (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 two or more, the owner or operator shall complete a revised analysis within six months of the change and submit a revised risk management plan as provided in § 68.190.

§ 68.39 Documentation.

The owner or operator shall maintain the following records on the offsite consequence analyses:

- (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 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.
- (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 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.
- (c) Documentation of estimated quantity released, release rate, and duration of release.
- (d) Methodology used to determine distance to endpoints.
- (e) Data used to estimate population and environmental receptors potentially affected.

§ 68.42 Five-year accident history.

- (a) The owner or operator shall include in the 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.
- (b) **Data required.** For each accidental release included, the owner or operator shall report the following information:
 - (1) Date, time, and approximate duration of the release;
 - (2) Chemical(s) released;
 - (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;
 - (4) Five- or six-digit NAICS code that most closely corresponds to the process;
 - (5) The type of release event and its source;
 - (6) Weather conditions, if known;

- (7) On-site impacts;
- (8) Known offsite impacts;
- (9) Initiating event and contributing factors if known;
- (10) Whether offsite responders were notified if known; and
- (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 § 68.168.

(c) **Level of accuracy.** Numerical estimates may be provided to two significant digits.

[61 FR 31718, June 20, 1996, as amended at 64 FR 979, Jan. 6, 1999; 69 FR 18831, Apr. 9, 2004]

Subpart C—Program 2 Prevention Program

Source: 61 FR 31721, June 20, 1996, unless otherwise noted.

§ 68.48 Safety information.

- (a) The owner or operator shall compile and maintain the following up-to-date safety information related to the regulated substances, processes, and equipment:
 - (1) Safety Data Sheets (SDS) that meet the requirements of 29 CFR 1910.1200(g);
 - (2) Maximum intended inventory of equipment in which the regulated substances are stored or processed;
 - (3) Safe upper and lower temperatures, pressures, flows, and compositions;
 - (4) Equipment specifications; and
 - (5) Codes and standards used to design, build, and operate the process.
- (b) The owner or operator shall ensure and document that the process is designed in compliance with recognized and generally accepted good engineering practices.
- (c) The owner or operator shall update the safety information if a major change occurs that makes the information inaccurate.

[61 FR 31721, June 20, 1996, as amended at 82 FR 4697, Jan. 13, 2017; 89 FR 17686, Mar. 11, 2024]

§ 68.50 Hazard review.

- (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:
 - (1) The hazards associated with the process and regulated substances;
 - (2) Opportunities for equipment malfunctions or human errors that could cause an accidental release;

- (3) The safeguards used or needed to control the hazards or prevent equipment malfunction or human error including standby or emergency power systems; the owner or operator shall ensure monitoring equipment associated with prevention and detection of accidental releases from covered processes has standby or backup power to provide continuous operation;
 - (4) Any steps used or needed to detect or monitor releases;
 - (5) Natural hazards that could cause or exacerbate an accidental release; and
 - (6) Stationary source siting, including the placement of processes, equipment, and buildings within the facility, and hazards posed by proximate stationary sources, and accidental release consequences posed by proximity to the public and public receptors.
- (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.
 - (c) The owner or operator shall document the results of the review and ensure that problems identified are resolved in a timely manner.
 - (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.

[61 FR 31721, June 20, 1996, as amended at 82 FR 4697, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17686, Mar. 11, 2024]

§ 68.52 Operating procedures.

- (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.
- (b) The procedures shall address the following:
 - (1) Initial startup;
 - (2) Normal operations;
 - (3) Temporary operations;
 - (4) Emergency shutdown and operations;
 - (5) Normal shutdown;
 - (6) Startup following a normal or emergency shutdown or a major change that requires a hazard review;
 - (7) Consequences of deviations and steps required to correct or avoid deviations;
 - (8) Equipment inspections; and
 - (9) Documentation when monitoring equipment associated with prevention and detection of accidental releases from covered processes is removed due to safety concerns from imminent natural hazards.

- (c) 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.

[61 FR 31721, June 20, 1996, as amended at 89 FR 17686, Mar. 11, 2024]

§ 68.54 Training.

- (a) The owner or operator shall ensure that each employee presently operating a process, and each employee newly assigned to a covered process have been trained or tested competent in the operating procedures provided in § 68.52 that pertain to their duties. For 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.
- (b) Refresher training shall be provided at least every three years, and more often if necessary, to each employee 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.
- (c) The owner or operator may use training conducted under Federal or state regulations or under industry-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.
- (d) The owner or operator shall ensure that operators are trained in any updated or new procedures prior to startup of a process after a major change.

[61 FR 31721, June 20, 1996, as amended at 82 FR 4697, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019]

§ 68.56 Maintenance.

- (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.
- (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.
- (c) Any maintenance contractor shall ensure that each contract maintenance employee is trained to perform the maintenance procedures developed under paragraph (a) of this section.
- (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.

§ 68.58 Compliance audits.

- (a) The owner or operator shall certify that they have evaluated compliance with the provisions of this subpart, at least every three years to verify that the procedures and practices developed under this subpart are adequate and are being followed. When required as set forth in paragraph (f) of this section, the compliance audit shall be a third-party audit.
- (b) The compliance audit shall be conducted by at least one person knowledgeable in the process.
- (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.
- (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 five years old.
- (f) The next required compliance audit shall be a third-party audit when one or more of the following conditions applies:
 - (1) An accidental release meeting the criteria in § 68.42(a) from a covered process at a stationary source has occurred; or
 - (2) An implementing agency 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 § 68.59(c).
- (g)
 - (1) If an implementing agency makes a preliminary determination that a third-party audit is necessary pursuant to paragraph (f)(2) of this section, the implementing agency will provide written notice to the owner or operator that describes the basis for this determination.
 - (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 implementing agency on the determination. Thereafter, the implementing agency will provide a final determination to the owner or operator.
 - (3) If the final determination requires a third-party audit, the owner or operator shall comply with the requirements of § 68.59, pursuant to the schedule in paragraph (h) of this section.
 - (4) The owner or operator may appeal a final determination made by an implementing agency under paragraph (g)(3) of this section within 30 days of receipt of the final determination. The appeal shall be made to the EPA Regional Administrator or, for determinations made by other implementing agencies, the administrator or director of such implementing agency. 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 implementing agency may request additional information from the owner or operator. The implementing agency will provide a written, final decision on the appeal to the owner or operator.
- (h) The audit and audit report shall be completed as in paragraph (a) of this section, unless a different timeframe is specified by the implementing agency.

[61 FR 31721, June 20, 1996, as amended at 82 FR 4697, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17686, Mar. 11, 2024]

§ 68.59 Third-party audits.

- (a) **Applicability.** The owner or operator shall engage a third party to conduct an audit that evaluates compliance with the provisions of this subpart in accordance with the requirements of this section when any criterion of § 68.58(f) is met.
- (b) **Third-party auditors and auditing teams.** The owner or operator shall either:
 - (1) Engage a third-party auditor meeting all of the competency and independence criteria in paragraph (c) of this section; or
 - (2) Assemble an auditing team, led by a third-party auditor meeting all of the competency and independence criteria in paragraph (c) of this section. The team may include:
 - (i) Other employees of the third-party auditor firm meeting the independence criteria of paragraph (c)(2) of this section; and
 - (ii) Other personnel not employed by the third-party auditor firm, including facility personnel.
- (c) **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:
 - (1) The third-party auditor(s) shall be:
 - (i) Knowledgeable with the requirements of this part;
 - (ii) Experienced with the stationary source type and processes being audited and applicable recognized and generally accepted good engineering practices; and
 - (iii) Trained and/or certified in proper auditing techniques.
 - (2) The third-party auditor(s) shall:
 - (i) Act impartially when performing all activities under this section;
 - (ii) Receive no financial benefit from the outcome of the audit, apart from payment for auditing services. For purposes of this paragraph (c)(2)(ii), 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;
 - (iii) 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 (c)(2); and
 - (iv) 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 the requirement in this paragraph (c)(2)(iv), employment does not include performing or participating in third-party audits pursuant to § 68.80 or this section.
 - (3) The auditor shall have written policies and procedures to ensure that all personnel comply with the competency and independence requirements of this section.
- (d) **Third-party auditor responsibilities.** The owner or operator shall ensure that the third-party auditor:
 - (1) Manages the audit and participates in audit initiation, design, implementation, and reporting;

- (2) Determines appropriate roles and responsibilities for the audit team members based on the qualifications of each team member;
- (3) Prepares the audit report and, where there is a team, documents the full audit team's views in the final audit report;
- (4) Certifies the final audit report and its contents as meeting the requirements of this section; and
- (5) Provides a copy of the audit report to the owner or operator.

(e) **Audit report.** The audit report shall:

- (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 (c)(1) of this section are met;
- (2) Describe or incorporate by reference the policies and procedures required under paragraph (c)(3) of this section;
- (3) Document the auditor's evaluation of the owner or operator's compliance with the provisions of this subpart to determine whether the procedures and practices developed by the owner or operator under this subpart are adequate and being followed;
- (4) Document the findings of the audit, including any identified compliance or performance deficiencies;
- (5) Summarize any significant revisions (if any) between draft and final versions of the report; and
- (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 subpart C of 40 CFR part 68 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.

(f) **Third-party audit findings** —

- (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:
 - (i) A copy of the final audit report;
 - (ii) An appropriate response to each of the audit report findings;
 - (iii) A schedule for promptly addressing deficiencies; and
 - (iv) 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 68.59 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 subpart C of 40 CFR part 68, 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.

- (2) **Schedule implementation.** The owner or operator shall implement the schedule to address deficiencies identified in the audit findings response report in paragraph (f)(1)(iii) of this section and document the action taken to address each deficiency, along with the date completed.
- (3) **Submission to Board of Directors.** The owner or operator shall immediately provide a copy of each document required under paragraphs (f)(1) and (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.
- (g) **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. The requirement in this paragraph (g) does not apply to any document that is more than five years old.

[89 FR 17687, Mar. 11, 2024]

§ 68.60 Incident investigation.

- (a) The owner or operator shall investigate each incident which resulted in, or could reasonably have resulted in a catastrophic release.
- (b) An incident investigation shall be initiated as promptly as possible, but not later than 48 hours following the incident.
- (c) An incident investigation team shall be established and consist of at least one person knowledgeable in the process involved and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident.
- (d) A report shall be prepared at the conclusion of the investigation which includes at a minimum:
 - (1) Date of incident;
 - (2) Date investigation began;
 - (3) A description of the incident;
 - (4) The factors that contributed to the incident; and,
 - (5) Any recommendations resulting from the investigation.
- (e) The owner or operator shall promptly address and resolve the investigation findings and recommendations. Resolutions and corrective actions shall be documented.
- (f) The findings shall be reviewed with all affected personnel whose job tasks are affected by the findings.

- (g) Incident investigation reports shall be retained for five years.
- (h) The owner or operator shall ensure the following are addressed when the incident in paragraph (a) of this section meets the accident history reporting requirements under § 68.42:
 - (1) The report shall be completed within 12 months of the incident, unless the implementing agency approves, in writing, to an extension of time; and
 - (2) The report in paragraph (d) of this section shall include factors that contributed to the incident including 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.

[61 FR 31721, June 20, 1996, as amended at 82 FR 4699, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17688, Mar. 11, 2024]

§ 68.62 Employee participation.

- (a) The owner or operator shall develop a written plan of action regarding the implementation of the employee participation requirements required by this section.
 - (1) An annual written or electronic notice shall be distributed to employees and their representatives indicating that the plan is readily available to view, and how to access the information.
 - (2) Training shall be provided as often as necessary to ensure employees and their representatives, and management involved in the process, are informed of the details of the plan.
- (b)
 - (1) The owner or operator shall develop and implement a process to allow employees and their representatives to report to either or both the owner or operator and EPA unaddressed hazards that could lead to a catastrophic release, accidents covered by § 68.42(a) but not reported under § 68.195(a), and any other noncompliance with this part.
 - (2) The employee and their representatives may choose to report either anonymously or with attribution.
 - (3) When a report is made to the owner or operator, a record of the report shall be maintained for three years.
- (c) The owner or operator shall provide to employees and their representatives access to hazard reviews and to all other information required to be developed under this subpart.

[89 FR 17688, Mar. 11, 2024]

Subpart D—Program 3 Prevention Program

Source: 61 FR 31722, June 20, 1996, unless otherwise noted.

§ 68.65 Process safety information.

- (a) The owner or operator shall complete a compilation of written process safety information before conducting any process hazard analysis required by this part 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.

- (b) Information pertaining to the hazards of the regulated substances in the process. This information shall consist of at least the following:
 - (1) Toxicity information;
 - (2) Permissible exposure limits;
 - (3) Physical data;
 - (4) Reactivity data;
 - (5) Corrosivity data;
 - (6) Thermal and chemical stability data; and
 - (7) Hazardous effects of inadvertent mixing of different materials that could foreseeably occur.

Note to paragraph (b): Safety Data Sheets (SDS) meeting the requirements of 29 CFR 1910.1200(g) may be used to comply with this requirement to the extent they contain the information required by paragraph (b) of this section.

- (c) Information pertaining to the technology of the process.
 - (1) Information concerning the technology of the process shall include at least the following:
 - (i) A block flow diagram or simplified process flow diagram;
 - (ii) Process chemistry;
 - (iii) Maximum intended inventory;
 - (iv) Safe upper and lower limits for such items as temperatures, pressures, flows or compositions; and,
 - (v) An evaluation of the consequences of deviations.
 - (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.
- (d) Information pertaining to the equipment in the process.
 - (1) Information pertaining to the equipment in the process shall include:
 - (i) Materials of construction;
 - (ii) Piping and instrument diagrams (P&ID's);
 - (iii) Electrical classification;
 - (iv) Relief system design and design basis;
 - (v) Ventilation system design;
 - (vi) Design codes and standards employed;

- (vii) Material and energy balances for processes built after June 21, 1999; and
- (viii) Safety systems (e.g. interlocks, detection or suppression systems).
- (2) The owner or operator shall ensure and document that the process is designed and maintained in compliance with recognized and generally accepted good engineering practices.
- (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.

[61 FR 31722, June 20, 1996, as amended at 82 FR 4699, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17688, Mar. 11, 2024]

§ 68.67 Process hazard analysis.

- (a) The owner or operator shall perform an initial process hazard analysis (hazard evaluation) on processes covered by this 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) are acceptable as initial process hazards analyses. These process hazard analyses shall be updated and revalidated, based on their completion date.
- (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.
 - (1) What-If;
 - (2) Checklist;
 - (3) What-If/Checklist;
 - (4) Hazard and Operability Study (HAZOP);
 - (5) Failure Mode and Effects Analysis (FMEA);
 - (6) Fault Tree Analysis; or
 - (7) An appropriate equivalent methodology.
- (c) The process hazard analysis shall address:
 - (1) The hazards of the process;
 - (2) The identification of any previous incident which had a likely potential for catastrophic consequences;
 - (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 and standby or emergency power systems. (Acceptable detection methods might include process monitoring and control instrumentation with alarms, and detection hardware such as hydrocarbon

sensors.) The owner or operator shall ensure monitoring equipment associated with prevention and detection of accidental releases from covered processes has standby or backup power to provide continuous operation;

- (4) Consequences of failure of engineering and administrative controls;
- (5) Stationary source siting, including the placement of processes, equipment, and buildings within the facility, and hazards posed by proximate stationary sources, and accidental release consequences posed by proximity to the public and public receptors;
- (6) Human factors;
- (7) A qualitative evaluation of a range of the possible safety and health effects of failure of controls;
- (8) Natural hazards that could cause or exacerbate an accidental release;
- (9) Safer technology and alternative risk management measures applicable to eliminating or reducing risk from process hazards for the following covered processes and shall meet all of the following requirements:
 - (i) For covered processes in NAICS codes 324 and 325, the owner or operator shall consider and document, 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.
 - (ii) For covered processes in paragraphs (c)(9)(ii)(A) through (C) of this section, the owner or operator shall consider and document, 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. The owner or operator shall also determine and document the practicability of the inherently safer technologies and designs considered. The owner or operator shall include in documentation any methods used to determine practicability. For any inherently safer technologies and designs implemented, the owner or operator shall document and submit to EPA a description of the technology implemented.
 - (A) In NAICS codes 324 and 325, located within 1 mile of another stationary source having a covered process in NAICS code 324 or 325;
 - (B) In NAICS code 324 with hydrofluoric acid alkylation covered processes; and
 - (C) In NAICS codes 324 and 325 that have had one accident that meets the accident history reporting requirements under § 68.42 since the most recent process hazard analysis under this section.
 - (iii) The analysis shall be performed by a team that includes members with expertise in the process being evaluated, including at least one member who works in the process. The team members shall be documented; and
- (10) Any gaps in safety between the codes, standards, or practices to which the process was designed and constructed and the most current version of applicable codes, standards, or practices.

- (d) The process hazard analysis shall be performed by a team with expertise in engineering and process operations, 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.
- (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; 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.
- (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) 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) are acceptable to meet the requirements of this paragraph.
- (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 (e) of this section for the life of the process.
- (h)
 - (1) Of the covered processes listed under paragraphs (h)(1)(i) through (iii) of this section, the owner or operator shall implement at least one passive measure at the stationary source, or an inherently safer technology or design, or a combination of active and procedural measures equivalent to or greater than the risk reduction of a passive measure, resulting from paragraph (c)(9)(i) of this section:
 - (i) In NAICS codes 324 and 325, located within 1 mile of another stationary source having a covered process in NAICS code 324 or 325;
 - (ii) In NAICS code 324 with hydrofluoric acid alkylation covered processes; and
 - (iii) In NAICS codes 324 and 325 that have had one accident that meets the accident history reporting requirements under § 68.42 since the most recent process hazard analysis under this section.
 - (2) If no passive measures are identified or all are not practicable, and no inherently safer technology or design is implemented, then the owner or operator shall implement at least one active measure. If no active measures are identified or all are not practicable, the owner or operator shall implement at least one procedural measure.
 - (3) For passive and active measures not implemented, the owner or operator shall document sufficient evidence to demonstrate to the implementing agency's satisfaction that implementing the measures is not practicable and the reasons for this conclusion. A claim that implementation is not practicable shall not be based solely on evidence of reduced profits or increased costs.

[61 FR 31722, June 20, 1996, as amended at 82 FR 4699, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17688, Mar. 11, 2024]

§ 68.69 Operating procedures.

- (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.
 - (1) Steps for each operating phase:
 - (i) Initial startup;
 - (ii) Normal operations;
 - (iii) Temporary operations;
 - (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 manner.
 - (v) Emergency operations;
 - (vi) Normal shutdown; and,
 - (vii) Startup following a turnaround, or after an emergency shutdown.
 - (2) Operating limits:
 - (i) Consequences of deviation; and
 - (ii) Steps required to correct or avoid deviation.
 - (3) Safety and health considerations:
 - (i) Properties of, and hazards presented by, the chemicals used in the process;
 - (ii) Precautions necessary to prevent exposure, including engineering controls, administrative controls, and personal protective equipment;
 - (iii) Control measures to be taken if physical contact or airborne exposure occurs;
 - (iv) Quality control for raw materials and control of hazardous chemical inventory levels; and,
 - (v) Any special or unique hazards.
 - (4) Safety systems and their functions, including documentation when monitoring equipment associated with prevention and detection of accidental releases from covered processes is removed due to safety concerns from imminent natural hazards.
- (b) Operating procedures shall be readily accessible to employees who work in or maintain a process.
- (c) 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 equipment, and changes to stationary sources. The owner or operator shall certify annually that these operating procedures are current and accurate.
- (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.

[61 FR 31722, June 20, 1996, as amended at 89 FR 17689, Mar. 11, 2024]

§ 68.71 Training.

(a) *Initial training.*

- (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. 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.
- (2) In lieu of initial training for 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.

(b) *Refresher training.* Refresher training shall be provided at least every 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.

(c) *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.

[61 FR 31722, June 20, 1996, as amended at 82 FR 4699, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019]

§ 68.73 Mechanical integrity.

(a) *Application.* Paragraphs (b) through (f) of this section apply to the following process equipment:

- (1) Pressure vessels and storage tanks;
- (2) Piping systems (including piping components such as valves);
- (3) Relief and vent systems and devices;
- (4) Emergency shutdown systems;
- (5) Controls (including monitoring devices and sensors, alarms, and interlocks) and,
- (6) Pumps.

(b) *Written procedures.* The owner or operator shall establish and implement written procedures to maintain the on-going integrity of process equipment.

(c) *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.

(d) *Inspection and testing.*

- (1) Inspections and tests shall be performed on process equipment.
- (2) Inspection and testing procedures shall follow recognized and generally accepted good engineering practices.
- (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) 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.
- (e) **Equipment deficiencies.** The owner or operator shall correct deficiencies in equipment that are outside acceptable limits (defined by the process safety information in § 68.65) before further use or in a safe and timely manner when necessary means are taken to assure safe operation.
- (f) **Quality assurance.**
 - (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 they will be used.
 - (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.
 - (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.

§ 68.75 Management of change.

- (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.
- (b) The procedures shall assure that the following considerations are addressed prior to any change:
 - (1) The technical basis for the proposed change;
 - (2) Impact of change on safety and health;
 - (3) Modifications to operating procedures;
 - (4) Necessary time period for the change; and,
 - (5) Authorization requirements for the proposed change.
- (c) 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.
- (d) If a change covered by this paragraph results in a change in the process safety information required by § 68.65 of this part, such information shall be updated accordingly.
- (e) If a change covered by this paragraph results in a change in the operating procedures or practices required by § 68.69, such procedures or practices shall be updated accordingly.

§ 68.77 Pre-startup review.

- (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.
- (b) The pre-startup safety review shall confirm that prior to the introduction of regulated substances to a process:
 - (1) Construction and equipment is in accordance with design specifications;
 - (2) Safety, operating, maintenance, and emergency procedures are in place and are adequate;
 - (3) For new stationary sources, a process hazard analysis has been performed and recommendations have been resolved or implemented before startup; and modified stationary sources meet the requirements contained in management of change, § 68.75.
 - (4) Training of each employee involved in operating a process has been completed.

§ 68.79 Compliance audits.

- (a) The owner or operator shall certify that they have evaluated compliance with the provisions of this subpart, at least every three years to verify that the procedures and practices developed under this subpart are adequate and are being followed. When required as set forth in paragraph (f) of this section, the compliance audit shall be a third-party audit.
- (b) The compliance audit shall be conducted by at least one person knowledgeable in the process.
- (c) A report of the findings of the audit shall be developed.
- (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.
- (e) The owner or operator shall retain the two (2) most recent compliance audit reports.
- (f) The next required compliance audit shall be a third-party audit when one or more of the following conditions applies:
 - (1) An accidental release meeting the criteria in § 68.42(a) from a covered process at a stationary source has occurred; or
 - (2) An implementing agency 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 § 68.80(c).
- (g)
 - (1) If an implementing agency makes a preliminary determination that a third-party audit is necessary pursuant to paragraph (f)(2) of this section, the implementing agency will provide written notice to the owner or operator that describes the basis for this determination.
 - (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 implementing agency on the determination. Thereafter, the implementing agency will provide a final determination to the owner or operator.

- (3) If the final determination requires a third-party audit, the owner or operator shall comply with the requirements of § 68.80, pursuant to the schedule in paragraph (h) of this section.
- (4) The owner or operator may appeal a final determination made by an implementing agency under paragraph (g)(3) of this section within 30 days of receipt of the final determination. The appeal shall be made to the EPA Regional Administrator or, for determinations made by other implementing agencies, the administrator or director of such implementing agency. 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 implementing agency may request additional information from the owner or operator. The implementing agency will provide a written, final decision on the appeal to the owner or operator.
- (h) The audit and audit report shall be completed as in paragraph (a) of this section, unless a different timeframe is specified by the implementing agency.

[61 FR 31722, June 20, 1996, as amended at 64 FR 979, Jan. 6, 1999; 82 FR 4699, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17689, Mar. 11, 2024]

§ 68.80 Third-party audits.

- (a) **Applicability.** The owner or operator shall engage a third party to conduct an audit that evaluates compliance with the provisions of this subpart in accordance with the requirements of this section when any criterion of § 68.79(f) is met.
- (b) **Third-party auditors and auditing teams.** The owner or operator shall either:
 - (1) Engage a third-party auditor meeting all of the competency and independence criteria in paragraph (c) of this section; or
 - (2) Assemble an auditing team, led by a third-party auditor meeting all of the competency and independence criteria in paragraph (c) of this section. The team may include:
 - (i) Other employees of the third-party auditor firm meeting the independence criteria of paragraph (c)(2) of this section; and
 - (ii) Other personnel not employed by the third-party auditor firm, including facility personnel.
- (c) **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:
 - (1) The third-party auditor(s) shall be:
 - (i) Knowledgeable with the requirements of this part;
 - (ii) Experienced with the stationary source type and processes being audited and applicable recognized and generally accepted good engineering practices; and
 - (iii) Trained and/or certified in proper auditing techniques.
 - (2) The third-party auditor(s) shall:
 - (i) Act impartially when performing all activities under this section;

- (ii) Receive no financial benefit from the outcome of the audit, apart from payment for auditing services. For purposes of this paragraph (c)(2)(ii), 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;
 - (iii) 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 (c)(2); and
 - (iv) 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 the requirement in this paragraph (c)(2)(iv), employment does not include performing or participating in third-party audits pursuant to § 68.59 or this section.
- (3) The auditor shall have written policies and procedures to ensure that all personnel comply with the competency and independence requirements of this section.
- (d) **Third-party auditor responsibilities.** The owner or operator shall ensure that the third-party auditor:
 - (1) Manages the audit and participates in audit initiation, design, implementation, and reporting;
 - (2) Determines appropriate roles and responsibilities for the audit team members based on the qualifications of each team member;
 - (3) Prepares the audit report and, where there is a team, documents the full audit team's views in the final audit report;
 - (4) Certifies the final audit report and its contents as meeting the requirements of this section; and
 - (5) Provides a copy of the audit report to the owner or operator.
- (e) **Audit report.** The audit report shall:
 - (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 (c)(1) of this section are met;
 - (2) Describe or incorporate by reference the policies and procedures required under paragraph (c)(3) of this section;
 - (3) Document the auditor's evaluation of the owner or operator's compliance with the provisions of this subpart to determine whether the procedures and practices developed by the owner or operator under this part are adequate and being followed;
 - (4) Document the findings of the audit, including any identified compliance or performance deficiencies;
 - (5) Summarize any significant revisions (if any) between draft and final versions of the report; and
 - (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 subpart D of 40 CFR part 68 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.

(f) **Third-party audit findings** –

(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:

- (i) A copy of the final audit report;
- (ii) An appropriate response to each of the audit report findings;
- (iii) A schedule for promptly addressing deficiencies; and
- (iv) 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 68.80 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 subpart D of 40 CFR part 68, 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.

(2) **Schedule implementation.** The owner or operator shall implement the schedule to address deficiencies identified in the audit findings response report in paragraph (f)(1)(iii) of this section and document the action taken to address each deficiency, along with the date completed.

(3) **Submission to Board of Directors.** The owner or operator shall immediately provide a copy of each document required under paragraphs (f)(1) and (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.

(g) **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.

[89 FR 17689, Mar. 11, 2024]

§ 68.81 Incident investigation.

(a) The owner or operator shall investigate each incident which resulted in, or could reasonably have resulted in a catastrophic release.

- (b) An incident investigation shall be initiated as promptly as possible, but not later than 48 hours following the incident.
- (c) An incident investigation team shall be established and consist of at least 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.
- (d) A report shall be prepared at the conclusion of the investigation which includes at a minimum:
 - (1) Date of incident;
 - (2) Date investigation began;
 - (3) A description of the incident;
 - (4) The factors that contributed to the incident; and,
 - (5) Any recommendations resulting from the investigation.
- (e) The owner or operator shall establish a system to promptly address and resolve the incident report findings and recommendations. Resolutions and corrective actions shall be documented.
- (f) The report shall be reviewed with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable.
- (g) Incident investigation reports shall be retained for five years.
- (h) The owner or operator shall ensure the following are addressed when the incident in paragraph (a) of this section meets the accident history reporting requirements under § 68.42:
 - (1) The report shall be completed within 12 months of the incident, unless the implementing agency approves, in writing, an extension of time; and
 - (2) The report in paragraph (d) of this section shall include factors that contributed to the incident including 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.

[61 FR 31722, June 20, 1996, as amended at 82 FR 4701, Jan. 13, 2017; 84 FR 69914, Dec. 19, 2019; 89 FR 17690, Mar. 11, 2024]

§ 68.83 Employee participation.

- (a) The owner or operator shall develop a written plan of action regarding the implementation of the employee participation requirements required by this section.
 - (1) An annual written or electronic notice shall be distributed to employees and their representatives indicating that the plan is readily available to view and how to access the information.
 - (2) Training shall be provided as often as necessary to ensure employees and their representatives, and management involved in the process, are informed of the details of the plan.
- (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 part.

- (c) The owner or operator shall consult with employees knowledgeable in the process and their representatives on addressing, correcting, resolving, documenting, and implementing recommendations and findings of process hazard analyses under § 68.67(e), compliance audits under § 68.79(d), and incident investigations under § 68.81(e).
- (d) The owner or operator shall provide the following authorities to employees knowledgeable in the process and their representatives:
 - (1) Recommend to the operator in charge of a unit that an operation or process be partially or completely shut down, in accordance with procedures established in § 68.69(a), based on the potential for a catastrophic release; and
 - (2) Allow a qualified operator in charge of a unit to partially or completely shut down an operation or process, in accordance with procedures established in § 68.69(a), based on the potential for a catastrophic release.
- (e)
 - (1) The owner or operator shall develop and implement a process to allow employees and their representatives to report to either or both the owner or operator and EPA unaddressed hazards that could lead to a catastrophic release, accidents covered by § 68.42(a) but not reported under § 68.195(a), and any other noncompliance with this part.
 - (2) The employee and their representatives may choose to report either anonymously or with attribution.
 - (3) When a report is made to the owner or operator, a record of the report shall be maintained for three years.
- (f) 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.

[89 FR 17690, Mar. 11, 2024]

§ 68.85 Hot work permit.

- (a) The owner or operator shall issue a hot work permit for hot work operations conducted on or near a covered process.
- (b) The permit shall document that the fire prevention and protection requirements in 29 CFR 1910.252(a) 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.
- (c) The permit shall be retained for three years after the completion of the hot work operations.

[61 FR 31722, June 20, 1996, as amended at 89 FR 17691, Mar. 11, 2024]

§ 68.87 Contractors.

- (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.
- (b) **Owner or operator responsibilities.**

- (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.
- (2) The owner or operator shall inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process.
- (3) The owner or operator shall explain to the contract owner or operator the applicable provisions of subpart E of this part.
- (4) The owner or operator shall develop and implement safe work practices consistent with § 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas.
- (5) The owner or operator shall periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in paragraph (c) of this section.

(c) ***Contract owner or operator responsibilities.***

- (1) The contract owner or operator shall assure that each contract employee is trained in the work practices necessary to safely perform his/her job.
- (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 his/her job and the process, and the applicable provisions of the emergency action plan.
- (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) 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).
- (5) The contract owner or operator shall advise the owner or operator of any unique hazards presented by the contract owner or operator's work, or of any hazards found by the contract owner or operator's work.

Subpart E—Emergency Response

Source: 61 FR 31725, June 20, 1996, unless otherwise noted.

§ 68.90 Applicability.

- (a) ***Responding stationary source.*** Except as provided in paragraph (b) of this section, the owner or operator of a stationary source with Program 2 and Program 3 processes shall comply with the requirements of §§ 68.93, 68.95, and 68.96.
- (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 § 68.95 of this part provided that:

- (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;
- (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;
- (3) Appropriate mechanisms are in place to notify emergency responders when there is a need for a response, including providing timely data and information detailing the current understanding and best estimates of the nature of the accidental release. The owner or operator may satisfy the requirement in this paragraph (b)(3) through notification mechanisms designed to meet other Federal, State, or local notification requirements, provided the notification meets the requirements of this paragraph (b)(3), as appropriate;
- (4) The owner or operator performs the annual emergency response coordination activities required under § 68.93;
- (5) The owner or operator performs the annual notification exercises required under § 68.96(a); and
- (6) The owner or operator maintains and implements, as necessary, procedures for informing the public and the appropriate Federal, State, and local emergency response agencies about accidental releases and partnering with these response agencies to ensure that a community notification system is in place to warn the public within the area potentially threatened by the accidental release. Documentation of the partnership shall be maintained in accordance with § 68.93(c).

[82 FR 4701, Jan. 13, 2017, as amended at 89 FR 17691, Mar. 11, 2024]

§ 68.93 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.

- (a) 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.
- (b) 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 other information necessary for developing and implementing the local emergency response plan. 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 § 68.96(b). 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 those materials.

- (c) 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.
- (d) **Classified and restricted information.** The disclosure of information classified or restricted by the Department of Defense or other Federal agencies or contractors of such agencies shall be controlled by applicable laws, regulations, or executive orders concerning the release of that classified or restricted information.

[82 FR 4701, Jan. 13, 2017, as amended at 84 FR 69914, Dec. 19, 2019]

§ 68.95 Emergency response program.

- (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:
 - (1) An emergency response plan, which shall be maintained at the stationary source and contain at least the following elements:
 - (i) Procedures for informing the public and the appropriate Federal, State, and local emergency response agencies about accidental releases, including partnering with these response agencies to ensure that a community notification system is in place to warn the public within the area potentially threatened by the accidental release. Documentation of the partnership shall be maintained in accordance with § 68.93(c);
 - (ii) Documentation of proper first-aid and emergency medical treatment necessary to treat accidental human exposures; and
 - (iii) Procedures and measures for emergency response after an accidental release of a regulated substance;
 - (2) Procedures for the use of emergency response equipment and for its inspection, testing, and maintenance;
 - (3) Training for all employees in relevant procedures; and
 - (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 from coordination activities, emergency response exercises, incident investigations, or other available information, and ensure that employees are informed of the changes.
- (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) of this section, shall satisfy the requirements of this section if the owner or operator also complies with paragraph (c) of this section.
- (c) The emergency response plan developed under paragraph (a)(1) of this section shall include providing timely data and information detailing the current understanding and best estimates of the nature of the release when an accidental release occurs and be coordinated with the community emergency response plan developed under 42 U.S.C. 11003. The owner or operator may satisfy the requirement of this paragraph (c) through notification mechanisms designed to meet other Federal, State, or local notification

requirements, provided the notification meets the requirements of this paragraph (c), as appropriate. Upon request of the 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.

[61 FR 31725, June 20, 1996, as amended at 82 FR 4702, Jan. 13, 2017; 89 FR 17691, Mar. 11, 2024]

§ 68.96 Emergency response exercises.

- (a) **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 § 68.90(b)(3) or § 68.95(a)(1)(i), 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 (b) of this section. The owner/operator shall maintain a written record of each notification exercise conducted over the last five years.
- (b) **Emergency response exercise program.** The owner or operator of a stationary source subject to the requirements of § 68.95 shall develop and implement an exercise program for its emergency response program, including the plan required under § 68.95(a)(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:
 - (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).
 - (i) **Frequency.** As part of coordination with local emergency response officials required by § 68.93, the owner or operator shall consult with these officials to establish an appropriate frequency for field exercises, and shall conduct a field exercise before March 15, 2027, and at a minimum at least once every ten years thereafter, unless the appropriate local emergency response agencies agree in writing that such frequency is impractical. If local emergency response agencies so agree, the owner or operator shall consult with local emergency response officials to establish an alternate appropriate frequency for field exercises.
 - (ii) **Scope.** Field exercises shall involve tests of the source's emergency response plan, including deployment of emergency response personnel and equipment. Field exercises should 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 equipment deployment; and any other action identified in the emergency response program, as appropriate.
 - (2) **Tabletop exercises.** The owner or operator shall conduct a tabletop exercise involving the simulated accidental release of a regulated substance.

- (i) **Frequency.** As part of coordination with local emergency response officials required by § 68.93, the owner or operator shall consult with these officials to establish an appropriate frequency for tabletop exercises, and shall conduct a tabletop exercise before December 21, 2026, and at a minimum of at least once every three years thereafter.
- (ii) **Scope.** Tabletop exercises shall involve discussions of the source's emergency response plan. The exercise should 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.
- (3) **Documentation.** The owner or operator shall prepare an evaluation report within 90 days of each field and tabletop 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.
- (c) **Alternative means of meeting exercise requirements.** The owner or operator may satisfy the requirement to conduct notification, field and/or tabletop exercises through:
 - (1) Exercises conducted to meet other Federal, state or local exercise requirements, provided the exercise meets the requirements of paragraphs (a) and/or (b) of this section, as appropriate.
 - (2) Response to an accidental release, provided the response includes the actions indicated in paragraphs (a) and/or (b) 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 (b)(3) of this section, within 90 days of the incident.

[82 FR 4702, Jan. 13, 2017, as amended at 84 FR 69915, Dec. 19, 2019; 89 FR 17691, Mar. 11, 2024]

Subpart F—Regulated Substances for Accidental Release Prevention

Source: 59 FR 4493, Jan. 31, 1994, unless otherwise noted. Redesignated at 61 FR 31717, June 20, 1996.

§ 68.100 Purpose.

This subpart designates substances to be listed under section 112(r)(3), (4), and (5) 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.

§ 68.115 Threshold determination.

- (a) A threshold quantity of a regulated substance listed in § 68.130 is present at a stationary source if the total quantity of the regulated substance contained in a process exceeds the threshold.
- (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:

- (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 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 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.
- (2) **Concentrations of a regulated flammable substance in a mixture.**
- (i) **General provision.** If a regulated substance is present in a mixture and the concentration of the substance is below 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)(2) (ii) and (iii) of this section, if the concentration of the substance is 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 part 51. 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 DC; or at the National Archives and Records Administration (NARA). For information on the availability of this material at 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. 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 DC; or at the National Archives and Records Administration (NARA). For information on the availability of this material at 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.
- (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.

- (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 § 68.3 of this part.
- (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.
- (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:
 - (i) Use as a structural component of the stationary source;
 - (ii) Use of products for routine janitorial maintenance;
 - (iii) Use by employees of foods, drugs, cosmetics, or other personal items containing the regulated substance; and
 - (iv) Use of regulated substances present in process water or non-contact cooling water as drawn from the environment or municipal sources, or use of regulated substances present in air used either as compressed air or as part of combustion.
- (5) **Activities in 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 § 720.3 of this chapter, the quantity of the substance need not be considered in determining whether a threshold quantity is present. This exemption does not apply to:
 - (i) Specialty chemical production;
 - (ii) Manufacture, processing, or use of substances in pilot plant scale operations; and
 - (iii) Activities conducted outside the laboratory.

[59 FR 4493, Jan. 31, 1994. Redesignated at 61 FR 31717, June 20, 1996, as amended at 63 FR 645, Jan. 6, 1998; 69 FR 18803, Apr. 9, 2004; 89 FR 102789, Dec. 18, 2024]

§ 68.120 Petition process.

- (a) Any person may petition the Administrator to modify, by addition or deletion, the list of regulated substances identified in § 68.130. Based on the information presented by the petitioner, the Administrator may grant or deny a petition.
- (b) A substance may be added to the list if, in the case of an accidental release, it is known to cause or may be reasonably anticipated to cause death, injury, or serious adverse effects to human health or the environment.
- (c) A substance may be deleted from the list if adequate data on the health and environmental effects of the substance are available to determine that the substance, in the case of an accidental release, is not known to cause and may not be reasonably anticipated to cause death, injury, or serious adverse effects to human health or the environment.

- (d) No substance for which a national primary ambient air quality standard has been established shall be added to the list. No substance regulated under title VI of the Clean Air Act, as amended, shall be added to the list.
- (e) The burden of proof is on the petitioner to demonstrate that the criteria for addition and deletion are met. A petition will be denied if this demonstration is not made.
- (f) The Administrator will not accept additional petitions on the same substance following publication of a final notice of the decision to grant or deny a petition, unless new data becomes available that could significantly affect the basis for the decision.
- (g) Petitions to modify the list of regulated substances must contain the following:
 - (1) Name and address of the petitioner and a brief description of the organization(s) that the petitioner represents, if applicable;
 - (2) Name, address, and telephone number of a contact person for the petition;
 - (3) Common chemical name(s), common synonym(s), Chemical Abstracts Service number, and chemical formula and structure;
 - (4) Action requested (add or delete a substance);
 - (5) Rationale supporting the petitioner's position; that is, how the substance meets the criteria for addition and deletion. A short summary of the rationale must be submitted along with a more detailed narrative; and
 - (6) Supporting data; that is, the petition must include sufficient information to scientifically support the request to modify the list. Such information shall include:
 - (i) A list of all support documents;
 - (ii) Documentation of literature searches conducted, including, but not limited to, identification of the database(s) searched, the search strategy, dates covered, and printed results;
 - (iii) Effects data (animal, human, and environmental test data) indicating the potential for death, injury, or serious adverse human and environmental impacts from acute exposure following an accidental release; printed copies of the data sources, in English, should be provided; and
 - (iv) Exposure data or previous accident history data, indicating the potential for serious adverse human health or environmental effects from an accidental release. These data may include, but are not limited to, physical and chemical properties of the substance, such as vapor pressure; modeling results, including data and assumptions used and model documentation; and historical accident data, citing data sources.
- (h) Within 18 months of receipt of a petition, the Administrator shall publish in the FEDERAL REGISTER a notice either denying the petition or granting the petition and proposing a listing.

§ 68.125 Exemptions.

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

§ 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 § 68.130 is nevertheless excluded from all provisions of this part when the substance is used as a fuel or held for sale as a fuel at a retail facility.

[65 FR 13250, Mar. 13, 2000]

§ 68.130 List of substances.

- (a) Regulated toxic and flammable substances under 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.
- (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—LIST OF REGULATED TOXIC SUBSTANCES AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION
[ALPHABETICAL ORDER—77 SUBSTANCES]**

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
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]	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

¹ The mixture exemption in § 68.115(b)(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.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro [oxybis [metane]]-, T-4-	353-42-4	15,000	b
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) [Hydrofluoric acid]	7664-39-3	1,000	a, b
Hydrogen selenide	7783-07-5	500	b
Hydrogen sulfide	7783-06-4	10,000	a, b

¹ The mixture exemption in § 68.115(b)(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.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
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]	10025-87-3	5,000	b
Phosphorus trichloride [Phosphorous trichloride]	7719-12-2	15,000	b
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

¹ The mixture exemption in § 68.115(b)(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.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Sulfur tetrafluoride [Sulfur fluoride (SF ₄), (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 (TiCl ₄) (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

¹ The mixture exemption in § 68.115(b)(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.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Vinyl acetate monomer [Acetic acid ethenyl ester]	108-05-4	15,000	b

¹ The mixture exemption in § 68.115(b)(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 2 TO § 68.130—LIST OF REGULATED TOXIC SUBSTANCES AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION
[CAS NUMBER ORDER—77 SUBSTANCES]**

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
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

¹ The mixture exemption in § 68.115(b)(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.

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
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
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)	15,000	b

¹ The mixture exemption in § 68.115(b)(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.

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
	[Boron, trifluoro[oxybis[methane]]-, T-4-		
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
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 (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
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
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

¹ The mixture exemption in § 68.115(b)(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.

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
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 sulfur trioxide] ¹	10,000	e
10025-87-3	Phosphorus oxychloride [Phosphoryl chloride]	5,000	b
10049-04-4	Chlorine dioxide [Chlorine oxide (ClO ₂)]	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

¹ The mixture exemption in § 68.115(b)(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 § 68.130—LIST OF REGULATED FLAMMABLE SUBSTANCES ¹ AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION [ALPHABETICAL ORDER—63 SUBSTANCES]

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Acetaldehyde	75-07-0	10,000	g

¹ A 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 part (see § 68.126).

Note: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Acetylene [Ethyne]	74-86-2	10,000	f
Bromotrifluorethylene [Ethene, bromotrifluoro-]	598-73-2	10,000	f
1,3-Butadiene	106-99-0	10,000	f
Butane	106-97-8	10,000	f
1-Butene	106-98-9	10,000	f
2-Butene	107-01-7	10,000	f
Butene	25167-67-3	10,000	f
2-Butene-cis	590-18-1	10,000	f
2-Butene-trans [2-Butene, (E)]	624-64-6	10,000	f
Carbon oxysulfide [Carbon oxide sulfide (COS)]	463-58-1	10,000	f
Chlorine monoxide [Chlorine oxide]	7791-21-1	10,000	f
2-Chloropropylene [1-Propene, 2-chloro-]	557-98-2	10,000	g
1-Chloropropylene [1-Propene, 1-chloro-]	590-21-6	10,000	g
Cyanogen [Ethanedinitrile]	460-19-5	10,000	f
Cyclopropane	75-19-4	10,000	f
Dichlorosilane [Silane, dichloro-]	4109-96-0	10,000	f
Difluoroethane [Ethane, 1,1-difluoro-]	75-37-6	10,000	f
Dimethylamine [Methanamine, N-methyl-]	124-40-3	10,000	f
2,2-Dimethylpropane [Propane, 2,2-dimethyl-]	463-82-1	10,000	f
Ethane	74-84-0	10,000	f
Ethyl acetylene [1-Butyne]	107-00-6	10,000	f
Ethylamine [Ethanamine]	75-04-7	10,000	f
Ethyl chloride [Ethane, chloro-]	75-00-3	10,000	f
Ethylene [Ethene]	74-85-1	10,000	f
Ethyl ether [Ethane, 1,1'-oxybis-]	60-29-7	10,000	g
Ethyl mercaptan [Ethanethiol]	75-08-1	10,000	g
Ethyl nitrite [Nitrous acid, ethyl ester]	109-95-5	10,000	f
Hydrogen	1333-74-0	10,000	f
Isobutane [Propane, 2-methyl]	75-28-5	10,000	f
Isopentane [Butane, 2-methyl-]	78-78-4	10,000	g
Isoprene [1,3-Butadiene, 2-methyl-]	78-79-5	10,000	g

¹ A 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 part (see § 68.126).

Note: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Isopropylamine [2-Propanamine]	75-31-0	10,000	g
Isopropyl chloride [Propane, 2-chloro-]	75-29-6	10,000	g
Methane	74-82-8	10,000	f
Methylamine [Methanamine]	74-89-5	10,000	f
3-Methyl-1-butene	563-45-1	10,000	f
2-Methyl-1-butene	563-46-2	10,000	g
Methyl ether [Methane, oxybis-]	115-10-6	10,000	f
Methyl formate [Formic acid, methyl ester]	107-31-3	10,000	g
2-Methylpropene [1-Propene, 2-methyl-]	115-11-7	10,000	f
1,3-Pentadinene	504-60-9	10,000	f
Pentane	109-66-0	10,000	g
1-Pentene	109-67-1	10,000	g
2-Pentene, (E)-	646-04-8	10,000	g
2-Pentene, (Z)-	627-20-3	10,000	g
Propadiene [1,2-Propadiene]	463-49-0	10,000	f
Propane	74-98-6	10,000	f
Propylene [1-Propene]	115-07-1	10,000	f
Propyne [1-Propyne]	74-99-7	10,000	f
Silane	7803-62-5	10,000	f
Tetrafluoroethylene [Ethene, tetrafluoro-]	116-14-3	10,000	f
Tetramethylsilane [Silane, tetramethyl-]	75-76-3	10,000	g
Trichlorosilane [Silane, trichloro-]	10025-78-2	10,000	g
Trifluorochloroethylene [Ethene, chlorotrifluoro-]	79-38-9	10,000	f
Trimethylamine [Methanamine, N,N-dimethyl-]	75-50-3	10,000	f
Vinyl acetylene [1-Buten-3-yne]	689-97-4	10,000	f
Vinyl chloride [Ethene, chloro-]	75-01-4	10,000	a, f
Vinyl ethyl ether [Ethene, ethoxy-]	109-92-2	10,000	g
Vinyl fluoride [Ethene, fluoro-]	75-02-5	10,000	f
Vinylidene chloride [Ethene, 1,1-dichloro-]	75-35-4	10,000	g
Vinylidene fluoride [Ethene, 1,1-difluoro-]	75-38-7	10,000	f

¹ A 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 part (see § 68.126).

Note: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Vinyl methyl ether [Ethene, methoxy-]	107-25-5	10,000	f

¹ A 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 part (see § 68.126).

Note: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

TABLE 4 TO § 68.130—LIST OF REGULATED FLAMMABLE SUBSTANCES ¹ AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION [CAS NUMBER ORDER—63 SUBSTANCES]

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
60-29-7	Ethyl ether [Ethane, 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

¹ A 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 part (see § 68.126).

NOTE: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
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
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-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, ethoxy-]	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]	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

¹ A 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 part (see § 68.126).

NOTE: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
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
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)-	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

¹ A 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 part (see § 68.126).

NOTE: Basis for Listing:

^a Mandated for listing by Congress.

^f Flammable gas.

^g Volatile flammable liquid.

[59 FR 4493, Jan. 31, 1994. Redesignated at 61 FR 31717, June 20, 1996, as amended at 62 FR 45132, Aug. 25, 1997; 63 FR 645, Jan. 6, 1998; 65 FR 13250, Mar. 13, 2000; 82 FR 4702, Jan. 13, 2017]

Subpart G—Risk Management Plan

Source: 61 FR 31726, June 20, 1996, unless otherwise noted.

§ 68.150 Submission.

- (a) The owner or operator shall submit a single RMP that includes the information required by §§ 68.155 through 68.185 for all covered processes. The RMP shall be submitted in the method and format to the central point specified by EPA as of the date of submission.
- (b) The owner or operator shall submit the first RMP no later than the latest of the following dates:

- (1) June 21, 1999;
 - (2) Three years after the date on which a regulated substance is first listed under § 68.130; or
 - (3) The date on which a regulated substance is first present above a threshold quantity in a process.
- (c) The owner or operator of any stationary source for which an RMP was submitted before June 21, 2004, shall revise the RMP to include the information required by § 68.160(b)(6) and (14) by June 21, 2004 in the manner specified by EPA prior to that date. Any such submission shall also include the information required by § 68.160(b)(20) (indicating that the submission is a correction to include the information required by § 68.160(b)(6) and (14) or an update under § 68.190).
- (d) RMPs submitted under this section shall be updated and corrected in accordance with §§ 68.190 and 68.195.
- (e) Notwithstanding the provisions of §§ 68.155 to 68.190, 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 may be made available in a classified annex to the RMP for review by Federal and state representatives who have received the appropriate security clearances.
- (f) Procedures for asserting that information submitted in the RMP is entitled to protection as confidential business information are set forth in §§ 68.151 and 68.152.

[61 FR 31726, June 20, 1996, as amended at 64 FR 979, Jan. 6, 1999; 69 FR 18831, Apr. 9, 2004]

§ 68.151 Assertion of claims of confidential business information.

- (a) Except as provided in paragraph (b) of this section, an owner or operator of a stationary source required to report or otherwise provide information under this part may make a claim of confidential business information for any such information that meets the criteria set forth in 40 CFR 2.301.
- (b) Notwithstanding the provisions of 40 CFR part 2, an owner or operator of a stationary source subject to this part may not claim as confidential business information the following information:
- (1) Registration data required by § 68.160(b)(1) through (6), (8), (10) through (13), and (21), and NAICS code and Program level of the process set forth in § 68.160(b)(7);
 - (2) Offsite consequence analysis data required by § 68.165(b)(4), (b)(9), (b)(10), (b)(11), and (b)(12).
 - (3) Accident history data required by § 68.168;
 - (4) Prevention program data required by § 68.170(b), (d), (e)(1), (f) through (k);
 - (5) Prevention program data required by § 68.175(b), (d), (e)(1), (f) through (p); and
 - (6) Emergency response program data required by § 68.180.
- (c) Notwithstanding the procedures specified in 40 CFR part 2, an owner or operator asserting a claim of CBI with respect to information contained in its RMP, shall submit to EPA at the time it submits the RMP the following:
- (1) The information claimed confidential, provided in a format to be specified by EPA;
 - (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

- (3) The document or documents substantiating each claim of confidential business information, as described in § 68.152.

[64 FR 979, Jan. 6, 1999, as amended at 84 FR 69915, Dec. 10, 2019]

§ 68.152 Substantiating claims of confidential business information.

- (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.
- (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.
- (c) 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.

[64 FR 980, Jan. 6, 1999]

§ 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:

- (a) The accidental release prevention and emergency response policies at the stationary source;
- (b) The stationary source and regulated substances handled;
- (c) The general accidental release prevention program and chemical-specific prevention steps;
- (d) The five-year accident history;
- (e) The emergency response program; and
- (f) Planned changes to improve safety.

[61 FR 31726, June 20, 1996, as amended at 69 FR 18831, Apr. 9, 2004]

§ 68.160 Registration.

- (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.
- (b) The registration shall include the following data:
- (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.

- (2) The stationary source Dun and Bradstreet number.
- (3) Name and Dun and Bradstreet number of the corporate parent company.
- (4) The name, telephone number, and mailing address of the owner or operator.
- (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.
- (6) The name, title, telephone number, 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) 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.
- (8) The stationary source EPA identifier.
- (9) The number of full-time employees at the stationary source.
- (10) Whether the stationary source is subject to 29 CFR 1910.119.
- (11) Whether the stationary source is subject to 40 CFR part 355.
- (12) If the stationary source has a CAA Title V operating permit, the permit number.
- (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.
- (14) As of June 21, 2004, the name, the mailing address, and the telephone number of the contractor who prepared the RMP (if any).
- (15) Source or Parent Company E-Mail Address (Optional).
- (16) Source Homepage address (Optional).
- (17) Phone number at the source for public inquiries (Optional).
- (18) Local Emergency Planning Committee (Optional).
- (19) OSHA Voluntary Protection Program status (Optional).
- (20) As of June 21, 2004, 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:
 - (i) Updates and re-submissions required under § 68.190(b);
 - (ii) Corrections under § 68.195 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 § 68.190(b);
 - (iii) De-registrations required under § 68.190(c); and
 - (iv) Withdrawals of an RMP for any facility that was erroneously considered subject to this part 68.
- (21) Whether a public meeting has been held following an RMP reportable accident, pursuant to § 68.210(b).

- (22) Method of communication and location of the notification that chemical hazard information is available to the public residing, working, or spending significant time within 6 miles of the stationary source, pursuant to § 68.210(d).

[61 FR 31726, June 20, 1996, as amended at 64 FR 980, Jan. 6, 1999; 69 FR 18831, Apr. 9, 2004; 82 FR 4703, Jan. 13, 2017; 84 FR 69915, Dec. 19, 2019; 89 FR 17692, Mar. 11, 2024]

§ 68.165 Offsite consequence analysis.

- (a) The owner or operator shall submit in the RMP information:
 - (1) One worst-case release scenario for each Program 1 process; and
 - (2) For Program 2 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), the owner or operator shall submit the same information on the additional scenario(s). The owner or operator of Program 2 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.
- (b) The owner or operator shall submit the following data:
 - (1) Chemical name;
 - (2) Percentage weight of the chemical in a liquid mixture (toxics only);
 - (3) Physical state (toxics only);
 - (4) Basis of results (give model name if used);
 - (5) Scenario (explosion, fire, toxic gas release, or liquid spill and evaporation);
 - (6) Quantity released in pounds;
 - (7) Release rate;
 - (8) Release duration;
 - (9) Wind speed and atmospheric stability class (toxics only);
 - (10) Topography (toxics only);
 - (11) Distance to endpoint;
 - (12) Public and environmental receptors within the distance;
 - (13) Passive mitigation considered; and
 - (14) Active mitigation considered (alternative releases only);

[61 FR 31726, June 20, 1996, as amended at 64 FR 980, Jan. 6, 1999]

§ 68.168 Five-year accident history.

The owner or operator shall submit in the RMP the information provided in § 68.42(b) on each accident covered by § 68.42(a).

§ 68.170 Prevention program/Program 2.

- (a) For each Program 2 process, the owner or operator shall provide in the RMP the information indicated in paragraphs (b) through (k) 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.
- (b) The five- or six-digit NAICS code that most closely corresponds to the process.
- (c) The name(s) of the chemical(s) covered.
- (d) The date of the most recent review or revision of the safety information and a list of Federal or state regulations or industry-specific design codes and standards used to demonstrate compliance with the safety information requirement.
- (e) The date of completion of the most recent hazard review or update.
 - (1) The expected date of completion of any changes resulting from the hazard review;
 - (2) Major hazards identified;
 - (3) Process controls in use;
 - (4) Mitigation systems in use;
 - (5) Monitoring and detection systems in use;
 - (6) Changes since the last hazard review; and
 - (7) Recommendations declined from natural hazard, power loss, and siting hazard evaluations and justifications.
- (f) The date of the most recent review or revision of operating procedures.
- (g) The date of the most recent review or revision of training programs;
 - (1) The type of training provided—classroom, classroom plus on the job, on the job; and
 - (2) The type of competency testing used.
- (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.
- (i) The date of the most recent compliance audit; the expected date of completion of any changes resulting from the compliance audit and identification of whether the most recent compliance audit was a third-party audit, pursuant to §§ 68.58 and 68.59; and findings declined from third-party compliance audits and justifications.
- (j) The completion date of the most recent incident investigation and the expected date of completion of any changes resulting from the investigation.

- (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.

[61 FR 31726, June 20, 1996, as amended at 64 FR 980, Jan. 6, 1999; 82 FR 4704, Jan. 13, 2017; 84 FR 69915, Dec. 19, 2019; 89 FR 17692, Mar. 11, 2024]

§ 68.175 Prevention program/Program 3.

- (a) For each Program 3 process, the owner or operator shall provide the information indicated in paragraphs (b) through (p) 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.
- (b) The five- or six-digit NAICS code that most closely corresponds to the process.
- (c) The name(s) of the substance(s) covered.
- (d) The date on which the safety information was last reviewed or revised.
- (e) The date of completion of the most recent PHA or update and the technique used;
 - (1) The expected date of completion of any changes resulting from the PHA;
 - (2) Major hazards identified;
 - (3) Process controls in use;
 - (4) Mitigation systems in use;
 - (5) Monitoring and detection systems in use;
 - (6) Changes since the last PHA;
 - (7) Inherently safer technology or design measures implemented since the last PHA, if any, and the technology category (substitution, minimization, simplification and/or moderation);
 - (8) Recommendations declined from natural hazard, power loss, and siting hazard evaluations and justifications; and
 - (9) Recommendations declined from safety gaps between codes, standards, or practices to which the process was designed and constructed and the most current version of applicable codes, standards, or practices.
- (f) The date of the most recent review or revision of operating procedures.
- (g) The date of the most recent review or revision of training programs;
 - (1) The type of training provided—classroom, classroom plus on the job, on the job; and
 - (2) The type of competency testing used.
- (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.
- (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.
- (j) The date of the most recent pre-startup review.

- (k) The date of the most recent compliance audit; the expected date of completion of any changes resulting from the compliance audit and identification of whether the most recent compliance audit was a third-party audit, pursuant to §§ 68.79 and 68.80; and findings declined from third-party compliance audits and justifications.
- (l) The completion date of the most recent incident investigation and the expected date of completion of any changes resulting from the investigation.
- (m) The date of the most recent review or revision of employee participation plans;
- (n) The date of the most recent review or revision of hot work permit procedures;
- (o) The date of the most recent review or revision of contractor safety procedures; and
- (p) The date of the most recent evaluation of contractor safety performance.

[61 FR 31726, June 20, 1996, as amended at 64 FR 980, Jan. 6, 1999; 82 FR 4704, Jan. 13, 2017; 84 FR 69915, Dec. 19, 2019; 89 FR 17692, Mar. 11, 2024]

§ 68.180 Emergency response program and exercises.

- (a) The owner or operator shall provide in the RMP:
 - (1) Name, phone number and email address of local emergency planning and response organizations with which the stationary source last coordinated emergency response efforts, pursuant to § 68.10(g)(3) or § 68.93.
 - (2) The date of the most recent coordination with the local emergency response organizations, pursuant to § 68.93 and
 - (3) A list of Federal or state emergency plan requirements to which the stationary source is subject.
- (b) 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 § 68.90.
 - (1) For non-responding stationary sources, the owner or operator shall identify:
 - (i) For stationary sources with any regulated toxic substance held in a process above the threshold quantity, whether the stationary source is included in the community emergency response plan developed under 42 U.S.C. 11003, pursuant to § 68.90(b)(1);
 - (ii) 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 § 68.90(b)(2);
 - (iii) What mechanisms are in place to notify the public and emergency responders when there is a need for emergency response; and
 - (iv) The date of the most recent notification exercise, as required in § 68.96(a).
 - (2) For responding stationary sources, the owner or operator shall identify:
 - (i) The date of the most recent review and update of the emergency response plan, pursuant to § 68.95(a)(4);
 - (ii) The date of the most recent notification exercise, as required in § 68.96(a);

- (iii) The date of the most recent field exercise, as required in § 68.96(b)(1); and
- (iv) The date of the most recent tabletop exercise, as required in § 68.96(b)(2).

[82 FR 4704, Jan. 13, 2017, as amended at 84 FR 69915, Dec. 19, 2019]

§ 68.185 Certification.

- (a) For Program 1 processes, the owner or operator shall submit in the RMP the certification statement provided in § 68.12(b)(4).
- (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.

§ 68.190 Updates.

- (a) The owner or operator shall review and update the RMP as specified in paragraph (b) of this section and submit it in the method and format to the central point specified by EPA as of the date of submission.
- (b) The owner or operator of a stationary source shall revise and update the RMP submitted under § 68.150 as follows:
 - (1) At least once every five years from the date of its initial submission or most recent update required by paragraphs (b)(2) through (b)(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.
 - (2) No later than three years after a newly regulated substance is first listed by EPA;
 - (3) No later than the date on which a new regulated substance is first present in an already covered process above a threshold quantity;
 - (4) No later than the date on which a regulated substance is first present above a threshold quantity in a new process;
 - (5) Within six months of a change that requires a revised PHA or hazard review;
 - (6) Within six months of a change that requires a revised offsite consequence analysis as provided in § 68.36; and
 - (7) Within six months of a change that alters the Program level that applied to any covered process.
- (c) If a stationary source is no longer subject to this part, the owner or operator shall submit a de-registration to EPA within six months indicating that the stationary source is no longer covered.

[61 FR 31726, June 20, 1996, as amended at 69 FR 18832, Apr. 9, 2004; 82 FR 4704, Jan. 13, 2017; 84 FR 69915, Dec. 19, 2019]

§ 68.195 Required corrections.

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

- (a) New accident history information—For any accidental release meeting the five-year accident history reporting criteria of § 68.42 and occurring after April 9, 2004, the owner or operator shall submit the data required under §§ 68.168, 68.170(j), and 68.175(l) with respect to that accident within six months of the release or by the time the RMP is updated under § 68.190, whichever is earlier.
- (b) Emergency contact information—Beginning June 21, 2004, within one month of any change in the emergency contact information required under § 68.160(b)(6), the owner or operator shall submit a correction of that information.

[69 FR 18832, Apr. 9, 2004]

Subpart H—Other Requirements

Source: 61 FR 31728, June 20, 1996, unless otherwise noted.

§ 68.200 Recordkeeping.

The owner or operator shall maintain records supporting the implementation of this part at the stationary source for five years, unless otherwise provided in subpart D of this part.

[82 FR 4704, Jan. 13, 2017]

§ 68.210 Availability of information to the public.

- (a) **RMP availability.** The RMP required under subpart G of this part shall be available to the public under 42 U.S.C. 7414(c) and 40 CFR part 1400.
- (b) **Public meetings.** The owner or operator of a stationary source shall hold a public meeting to provide information required under § 68.42(b), no later than 90 days after any RMP reportable accident at the stationary source with any known offsite impact specified in § 68.42(a).
- (c) **Classified and restricted information.** The disclosure of information classified or restricted by the Department of Defense or other Federal agencies or contractors of such agencies shall be controlled by applicable laws, regulations, or executive orders concerning the release of that classified or restricted information.
- (d) **Chemical hazard information.** The owner or operator of a stationary source shall provide, upon request by any member of the public residing, working, or spending significant time within 6 miles of the fenceline of a stationary source, the following chemical hazard information for all regulated processes:
 - (1) **Regulated substances information.** Names of regulated substances held in a process;
 - (2) **Safety Data Sheets.** SDSs for all regulated substances located at the facility;
 - (3) **Accident history information.** Provide the five-year accident history information required to be reported under § 68.42;
 - (4) **Emergency response program.** The following summary information concerning the stationary source's compliance with § 68.10(f)(3) and the emergency response provisions of subpart E of this part as applicable:

- (i) Whether the stationary source is a responding stationary source or a non-responding stationary source;
 - (ii) Name and phone number of local emergency response organizations with which the owner or operator last coordinated emergency response efforts, pursuant to § 68.180; and
 - (iii) For stationary sources subject to § 68.95, procedures for informing the public and local emergency response agencies about accidental releases;
- (5) **Exercises.** A list of scheduled exercises, excluding dates, required under § 68.96 occurring within one year from the date of request;
- (6) **LEPC contact information.** Include LEPC name, phone number, and web address as available; and
- (7) **Declined recommendations and justifications.** Include declined recommendations and justifications required under §§ 68.170(e)(7) and 68.175(e)(7) through (9).
- (e) **Languages.** The information shall be made available in English or in at least any two other commonly spoken languages by the population potentially affected, as requested.
- (f) **Notification of availability of information.** The owner or operator shall provide ongoing notification on a company website, social media platforms, or through other publicly accessible means that:
 - (1) Information specified in paragraph (d) of this section is available to the public residing, working, or spending significant time within 6 miles of the stationary source upon request. The notification shall:
 - (i) Specify the information elements, identified in paragraph (d) of this section, that can be requested; and
 - (ii) Provide instructions for how to request the information including verification of presence within 6-miles (e.g., email, mailing address, and/or telephone or website request); and
 - (2) Identify where to access information on community preparedness, if available, including shelter-in-place and evacuation procedures.
- (g) **Timeframe to provide requested information.** The owner or operator shall provide the requested information under paragraph (d) of this section within 45 days of receiving a request.
- (h) **Recordkeeping.** The owner or operator shall maintain a record of the members of the public requesting chemical hazard information for five years.

[82 FR 4704, Jan. 13, 2017, as amended at 84 FR 69916, Dec. 19, 2019; 89 FR 17692, Mar. 11, 2024]

§ 68.215 Permit content and air permitting authority or designated agency requirements.

- (a) These requirements apply to any stationary source subject to this part 68 and parts 70 or 71 of this chapter. The 40 CFR part 70 or part 71 permit for the stationary source shall contain:
 - (1) A statement listing this part as an applicable requirement;
 - (2) Conditions that require the source owner or operator to submit:
 - (i) A compliance schedule for meeting the requirements of this part by the dates provided in §§ 68.10(a) through (f) and 68.96(a) and (b)(2)(i), or;

- (ii) As part of the compliance certification submitted under 40 CFR 70.6(c)(5), a certification statement that the source is in compliance with all requirements of this part, including the registration and submission of the RMP.
- (b) The owner or operator shall submit any additional relevant information requested by the air permitting authority or designated agency.
- (c) For 40 CFR part 70 or part 71 permits issued prior to the deadline for registering and submitting the RMP and which do not contain permit conditions described in paragraph (a) of this section, the owner or operator or air permitting authority shall initiate permit revision or reopening according to the procedures of 40 CFR 70.7 or 71.7 to incorporate the terms and conditions consistent with paragraph (a) of this section.
- (d) The state may delegate the authority to implement and enforce the requirements of paragraph (e) of this section to a state or local agency or agencies other than the air permitting authority. An up-to-date copy of any delegation instrument shall be maintained by the air permitting authority. The state may enter a written agreement with the Administrator under which EPA will implement and enforce the requirements of paragraph (e) of this section.
- (e) The air permitting authority or the agency designated by delegation or agreement under paragraph (d) of this section shall, at a minimum:
 - (1) Verify that the source owner or operator has registered and submitted an RMP 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 (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; and
 - (4) Initiate enforcement action based on paragraphs (e)(1) and (e)(2) of this section as appropriate.

[61 FR 31728, June 20, 1996, as amended at 84 FR 69916, Dec. 19, 2019]

§ 68.220 Audits.

- (a) In addition to inspections for the purpose of regulatory development and enforcement of the Act, the implementing agency shall periodically audit RMPs submitted under subpart G of this part to review the adequacy of such RMPs and require revisions of RMPs when necessary to ensure compliance with subpart G of this part.
- (b) The implementing agency shall select stationary sources for audits based on any of the following criteria:
 - (1) Accident history of the stationary source;
 - (2) Accident history of other stationary sources in the same industry;
 - (3) Quantity of regulated substances present at the stationary source;
 - (4) Location of the stationary source and its proximity to the public and environmental receptors;
 - (5) The presence of specific regulated substances;

- (6) The hazards identified in the RMP; and
- (7) A plan providing for neutral, random oversight.
- (c) Exemption from audits. A stationary source with a Star or Merit ranking under OSHA's voluntary protection program shall be exempt from audits under paragraph (b)(2) and (b)(7) of this section.
- (d) The implementing agency shall have access to the stationary source, supporting documentation, and any area where an accidental release could occur.
- (e) Based on the audit, the implementing agency 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 of this 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.
- (f) ***Written response to a preliminary determination.***
 - (1) The owner or operator shall respond in writing to a preliminary determination made in accordance with paragraph (e) 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 such revision. Such explanation may include substitute revisions.
 - (2) The written response under paragraph (f)(1) of this section shall be received by the implementing agency within 90 days of the issue of the preliminary determination or a shorter period of time as the implementing agency 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 implementing agency may provide in writing additional time for the response to be received.
- (g) After providing the owner or operator an opportunity to respond under paragraph (f) of this section, the implementing agency 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) of this section or may adopt or modify the substitute revisions provided in the response under paragraph (f) 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) of this section shall include an explanation of the basis for finding such substitute revision unreasonable.
- (h) Thirty days after completion of the actions detailed in the implementation schedule set in the final determination under paragraph (g) of this section, the owner or operator shall be in violation of subpart G of this part and this section unless the owner or operator revises the RMP prepared under subpart G of this part as required by the final determination, and submits the revised RMP as required under § 68.150.
- (i) The public shall have access to the preliminary determinations, responses, and final determinations under this section in a manner consistent with § 68.210.
- (j) Nothing in this section shall preclude, limit, or interfere in any way with the authority of EPA or the state to exercise its enforcement, investigatory, and information gathering authorities concerning this part under the Act.

Appendix A to Part 68—Table of Toxic Endpoints

[AS DEFINED IN § 68.22 OF THIS PART]

CAS No.	Chemical name	Toxic endpoint (mg/L)
107-02-8	Acrolein [2-Propenal]	0.0011
107-13-1	Acrylonitrile [2-Propenenitrile]	0.076
814-68-6	Acrylyl chloride [2-Propenoyl chloride]	0.00090
107-18-6	Allyl alcohol [2-Propen-1-ol]	0.036
107-11-9	Allylamine [2-Propen-1-amine]	0.0032
7664-41-7	Ammonia (anhydrous)	0.14
7664-41-7	Ammonia (conc 20% or greater)	0.14
7784-34-1	Arsenous trichloride	0.010
7784-42-1	Arsine	0.0019
10294-34-5	Boron trichloride [Borane, trichloro-]	0.010
7637-07-2	Boron trifluoride [Borane, trifluoro-]	0.028
353-42-4	Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro[oxybis[methane]]-, T-4	0.023
7726-95-6	Bromine	0.0065
75-15-0	Carbon disulfide	0.16
7782-50-5	Chlorine	0.0087
10049-04-4	Chlorine dioxide [Chlorine oxide (ClO ₂)]	0.0028
67-66-3	Chloroform [Methane, trichloro-]	0.49
542-88-1	Chloromethyl ether [Methane, oxybis[chloro-]	0.00025
107-30-2	Chloromethyl methyl ether [Methane, chloromethoxy-]	0.0018
4170-30-3	Crotonaldehyde [2-Butenal]	0.029
123-73-9	Crotonaldehyde, (E)-, [2-Butenal, (E)-]	0.029
506-77-4	Cyanogen chloride	0.030
108-91-8	Cyclohexylamine [Cyclohexanamine]	0.16
19287-45-7	Diborane	0.0011
75-78-5	Dimethyldichlorosilane [Silane, dichlorodimethyl-]	0.026
57-14-7	1,1-Dimethylhydrazine [Hydrazine, 1,1-dimethyl-]	0.012
106-89-8	Epichlorohydrin [Oxirane, (chloromethyl)-]	0.076
107-15-3	Ethylenediamine [1,2-Ethanediamine]	0.49
151-56-4	Ethyleneimine [Aziridine]	0.018
75-21-8	Ethylene oxide [Oxirane]	0.090
7782-41-4	Fluorine	0.0039
50-00-0	Formaldehyde (solution)	0.012
110-00-9	Furan	0.0012

CAS No.	Chemical name	Toxic endpoint (mg/L)
302-01-2	Hydrazine	0.011
7647-01-0	Hydrochloric acid (conc 37% or greater)	0.030
74-90-8	Hydrocyanic acid	0.011
7647-01-0	Hydrogen chloride (anhydrous) [Hydrochloric acid]	0.030
7664-39-3	Hydrogen fluoride/Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid]	0.016
7783-07-5	Hydrogen selenide	0.00066
7783-06-4	Hydrogen sulfide	0.042
13463-40-6	Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) ₅), (TB-5-11)-]	0.00044
78-82-0	Isobutyronitrile [Propanenitrile, 2-methyl-]	0.14
108-23-6	Isopropyl chloroformate [Carbonochloride acid, 1-methylethyl ester]	0.10
126-98-7	Methacrylonitrile [2-Propenenitrile, 2-methyl-]	0.0027
74-87-3	Methyl chloride [Methane, chloro-]	0.82
79-22-1	Methyl chloroformate [Carbonochloridic acid, methylester]	0.0019
60-34-4	Methyl hydrazine [Hydrazine, methyl-]	0.0094
624-83-9	Methyl isocyanate [Methane, isocyanato-]	0.0012
74-93-1	Methyl mercaptan [Methanethiol]	0.049
556-64-9	Methyl thiocyanate [Thiocyanic acid, methyl ester]	0.085
75-79-6	Methyltrichlorosilane [Silane, trichloromethyl-]	0.018
13463-39-3	Nickel carbonyl	0.00067
7697-37-2	Nitric acid (conc 80% or greater)	0.026
10102-43-9	Nitric oxide [Nitrogen oxide (NO)]	0.031
8014-95-7	Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur trioxide]	0.010
79-21-0	Peracetic acid [Ethaneperoxoic acid]	0.0045
594-42-3	Perchloromethylmercaptan [Methanesulphenyl chloride, trichloro-]	0.0076
75-44-5	Phosgene [Carbonic dichloride]	0.00081
7803-51-2	Phosphine	0.0035
10025-87-3	Phosphorus oxychloride [Phosphoryl chloride]	0.0030
7719-12-2	Phosphorus trichloride [Phosphorous trichloride]	0.028
110-89-4	Piperidine	0.022
107-12-0	Propionitrile [Propanenitrile]	0.0037
109-61-5	Propyl chloroformate [Carbonochloridic acid, propylester]	0.010
75-55-8	Propyleneimine [Aziridine, 2-methyl-]	0.12
75-56-9	Propylene oxide [Oxirane, methyl-]	0.59
7446-09-5	Sulfur dioxide (anhydrous)	0.0078
7783-60-0	Sulfur tetrafluoride [Sulfur fluoride (SF ₄), (T-4)-]	0.0092
7446-11-9	Sulfur trioxide	0.010
75-74-1	Tetramethyllead [Plumbane, tetramethyl-]	0.0040

CAS No.	Chemical name	Toxic endpoint (mg/L)
509-14-8	Tetranitromethane [Methane, tetranitro-]	0.0040
7750-45-0	Titanium tetrachloride [Titanium chloride (TiCl ₄) (T-4)-]	0.020
584-84-9	Toluene 2,4-diisocyanate [Benzene, 2,4-diisocyanato-1-methyl-]	0.0070
91-08-7	Toluene 2,6-diisocyanate [Benzene, 1,3-diisocyanato-2-methyl-]	0.0070
26471-62-5	Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-]	0.0070
75-77-4	Trimethylchlorosilane [Silane, chlorotrimethyl-]	0.050
108-05-4	Vinyl acetate monomer [Acetic acid ethenyl ester]	0.26

[61 FR 31729, June 20, 1996, as amended at 62 FR 45132, Aug. 25, 1997]