

US EPA ARCHIVE DOCUMENT

**SUBCHAPTER A: INDUSTRIAL SOLID WASTE AND
MUNICIPAL HAZARDOUS WASTE IN GENERAL**
§§335.1 - 335.15, 335.17 - 335.25, 335.28 - 335.31
Effective November 15, 2001

§335.1. Definitions.

The following words and terms, when used in this chapter, shall have the following meanings, unless the context clearly requires otherwise.

(1) **Aboveground tank** - A device meeting the definition of tank in this section and that is situated in such a way that the entire surface area of the tank is completely above the plane of the adjacent surrounding surface and the entire surface area of the tank (including the tank bottom) is able to be visually inspected.

(2) **Act** - Texas Health and Safety Code, Chapter 361.

(3) **Active life** - The period from the initial receipt of hazardous waste at the facility until the executive director receives certification of final closure.

(4) **Active portion** - That portion of a facility where processing, storage, or disposal operations are being or have been conducted after November 19, 1980, and which is not a closed portion. (See also "closed portion" and "inactive portion.")

(5) **Activities associated with the exploration, development, and protection of oil or gas or geothermal resources** - Activities associated with:

(A) the drilling of exploratory wells, oil wells, gas wells, or geothermal resource wells;

(B) the production of oil or gas or geothermal resources, including:

(i) activities associated with the drilling of injection water source wells that penetrate the base of usable quality water;

(ii) activities associated with the drilling of cathodic protection holes associated with the cathodic protection of wells and pipelines subject to the jurisdiction of the commission to regulate the production of oil or gas or geothermal resources;

(iii) activities associated with gasoline plants, natural gas or natural gas liquids processing plants, pressure maintenance plants, or repressurizing plants;

(iv) activities associated with any underground natural gas storage facility, provided the terms "natural gas" and "storage facility" shall have the meanings set out in the Texas Natural Resources Code, §91.173;

(v) activities associated with any underground hydrocarbon storage facility, provided the terms "hydrocarbons" and "underground hydrocarbon storage facility" shall have the meanings set out in the Texas Natural Resources Code, §91.173; and

(vi) activities associated with the storage, handling, reclamation, gathering, transportation, or distribution of oil or gas prior to the refining of such oil or prior to the use of such gas in any manufacturing process or as a residential or industrial fuel;

(C) the operation, abandonment, and proper plugging of wells subject to the jurisdiction of the commission to regulate the exploration, development, and production of oil or gas or geothermal resources; and

(D) the discharge, storage, handling, transportation, reclamation, or disposal of waste or any other substance or material associated with any activity listed in subparagraphs (A) - (C) of this paragraph, except for waste generated in connection with activities associated with gasoline plants, natural gas or natural gas liquids processing plants, pressure maintenance plants, or repressurizing plants if that waste is a hazardous waste as defined by the administrator of the United States Environmental Protection Agency (EPA) pursuant to the Federal Solid Waste Disposal Act, as amended (42 United States Code, §§6901 et seq.).

(6) **Administrator** - The administrator of the United States Environmental Protection Agency or his designee.

(7) **Ancillary equipment** - Any device that is used to distribute, meter, or control the flow of solid waste or hazardous waste from its point of generation to a storage or processing tank(s), between solid waste or hazardous waste storage and processing tanks to a point of disposal on-site, or to a point of shipment for disposal off-site. Such devices include, but are not limited to, piping, fittings, flanges, valves, and pumps.

(8) **Aquifer** - A geologic formation, group of formations, or part of a formation capable of yielding a significant amount of groundwater to wells or springs.

(9) **Authorized representative** - The person responsible for the overall operation of a facility or an operation unit (i.e., part of a facility), e.g., the plant manager, superintendent, or person of equivalent responsibility.

(10) **Battery** - Has the definition adopted under §335.261 of this title (relating to Universal Waste Rule).

(11) **Boiler** - An enclosed device using controlled flame combustion and having the following characteristics:

(A) the unit must have physical provisions for recovering and exporting thermal energy in the form of steam, heated fluids, or heated gases;

(B) the unit's combustion chamber and primary energy recovery section(s) must be of integral design. To be of integral design, the combustion chamber and the primary energy recovery section(s) (such as waterwalls and superheaters) must be physically formed into one manufactured or assembled unit. A unit in which the combustion chamber and the primary energy recovery section(s) are joined only by ducts or connections carrying flue gas is not integrally designed; however, secondary energy recovery equipment (such as economizers or air preheaters) need not be physically formed into the same unit as the combustion chamber and the primary energy recovery section. The following units are not precluded from being boilers solely because they are not of integral design:

(i) process heaters (units that transfer energy directly to a process stream), and

(ii) fluidized bed combustion units; and

(C) while in operation, the unit must maintain a thermal energy recovery efficiency of at least 60%, calculated in terms of the recovered energy compared with the thermal value of the fuel; and

(D) the unit must export and utilize at least 75% of the recovered energy, calculated on an annual basis. In this calculation, no credit shall be given for recovered heat used internally in the same unit. (Examples of internal use are the preheating of fuel or combustion air, and the driving of induced or forced draft fans or feedwater pumps); or

(E) the unit is one which the executive director has determined, on a case-by-case basis, to be a boiler, after considering the standards in §335.20 of this title (relating to Variance to be Classified as a Boiler).

(12) **Carbon regeneration unit** - Any enclosed thermal treatment device used to regenerate spent activated carbon.

(13) **Certification** - A statement of professional opinion based upon knowledge and belief.

(14) **Class 1 wastes** - Any industrial solid waste or mixture of industrial solid wastes which because of its concentration, or physical or chemical characteristics, is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, or may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or disposed of or otherwise managed, as further defined in §335.505 of this title (relating to Class 1 Waste Determination).

(15) **Class 2 wastes** - Any individual solid waste or combination of industrial solid waste which cannot be described as Hazardous, Class 1 or Class 3 as defined in §335.506 of this title (relating to Class 2 Waste Determination).

(16) **Class 3 wastes** - Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of this title (relating to Class 3 Waste Determination).

(17) **Closed portion** - That portion of a facility which an owner or operator has closed in accordance with the approved facility closure plan and all applicable closure requirements. (See also "active portion" and "inactive portion.")

(18) **Closure** - The act of permanently taking a waste management unit or facility out of service.

(19) **Commercial hazardous waste management facility** - Any hazardous waste management facility that accepts hazardous waste or PCBs for a charge, except a captured facility or a facility that accepts waste only from other facilities owned or effectively controlled by the same person, where "captured facility" means a manufacturing or production facility that generates an industrial solid waste or hazardous waste that is routinely stored, processed, or disposed of on a shared basis in an integrated waste management unit owned, operated by, and located within a contiguous manufacturing complex.

(20) **Component** - Either the tank or ancillary equipment of a tank system.

(21) **Confined aquifer** - An aquifer bounded above and below by impermeable beds or by beds of distinctly lower permeability than that of the aquifer itself; an aquifer containing confined groundwater.

(22) **Consignee** - The ultimate treatment, storage, or disposal facility in a receiving country to which the hazardous waste will be sent.

(23) **Container** - Any portable device in which a material is stored, transported, processed, or disposed of, or otherwise handled.

(24) **Containment building** - A hazardous waste management unit that is used to store or treat hazardous waste under the provisions of §335.152(a)(19) or §335.112(a)(21) of this title (relating to Standards).

(25) **Contaminant** - Includes, but is not limited to, "solid waste," "hazardous waste," and "hazardous waste constituent" as defined in this subchapter, "pollutant" as defined in the Texas Water Code, §26.001, and Texas Health and Safety Code, §361.431, "hazardous substance" as defined in the Texas Health and Safety Code, §361.003, and other substances that are subject to the Texas Hazardous Substances Spill Prevention and Control Act, Texas Water Code, §§26.261 - 26.268.

(26) **Contaminated medium/media** - A portion or portions of the physical environment to include soil, sediment, surface water, ground water or air, that contain contaminants at levels that pose a substantial present or future threat to human health and the environment.

(27) **Contingency plan** - A document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

(28) **Control** - To apply engineering measures such as capping or reversible treatment methods and/or institutional measures such as deed restrictions to facilities or areas with wastes or contaminated media which result in remedies that are protective of human health and the environment when combined with appropriate maintenance, monitoring, and any necessary further corrective action.

(29) **Corrective action management unit (CAMU)** - An area within a facility that is designated by the commission under 40 Code of Federal Regulations (CFR) Part 264, Subpart S, for the purpose of implementing corrective action requirements under §335.167 of this title (relating to Corrective Action for Solid Waste Management Units) and the Texas Water Code, §7.031 (Corrective Action related to Hazardous Waste). A CAMU shall only be used for the management of remediation wastes pursuant to implementing such corrective action requirements at the facility.

(30) **Corrosion expert** - A person who, by reason of his knowledge of the physical sciences and the principles of engineering and mathematics, acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person must be certified as being qualified by the National Association of Corrosion Engineers (NACE) or be a registered professional engineer who has certification or licensing that includes education and experience in corrosion control on buried or submerged metal piping systems and metal tanks.

(31) **Decontaminate** - To apply a treatment process(es) to wastes or contaminated media whereby the substantial present or future threat to human health and the environment is eliminated.

(32) **Designated facility** - A Class 1 or hazardous waste storage, processing, or disposal facility which has received an EPA permit (or a facility with interim status) in accordance with the requirements of 40 CFR Parts 270 and 124; a permit from a state authorized in accordance with 40 CFR Part 271 (in the case of hazardous waste); a permit issued pursuant to §335.2 of this title (relating to Permit Required) (in the case of nonhazardous waste); or that is regulated under §335.24(f), (g), or (h) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) or §335.241 of this title (relating to Applicability and Requirements) and that has been designated on the manifest by the generator pursuant to §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste). If a waste is destined to a facility in an authorized state which has not yet obtained authorization to regulate that particular waste as hazardous, then the designated facility must be a facility allowed by the receiving state to accept such waste.

(33) **Destination facility** - Has the definition adopted under §335.261 of this title (relating to Universal Waste Rule).

(34) **Dike** - An embankment or ridge of either natural or man-made materials used to prevent the movement of liquids, sludges, solids, or other materials.

✓ (35) **Dioxins and furans (D/F)** - Tetra, penta, hexa, hepta, and octa-chlorinated dibenzo dioxins and furans.

(36) **Discharge or hazardous waste discharge** - The accidental or intentional spilling, leaking, pumping, pouring, emitting, emptying, or dumping of waste into or on any land or water.

(37) **Disposal** - The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste (whether containerized or uncontainerized) into or on any land or water so that such solid waste or hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including groundwaters.

(38) **Disposal facility** - A facility or part of a facility at which solid waste is intentionally placed into or on any land or water, and at which waste will remain after closure. The term "disposal facility" does not include a corrective action management unit into which remediation wastes are placed.

(39) **Drip pad** - An engineered structure consisting of a curbed, free-draining base, constructed of a non-earthen materials and designed to convey preservative kick-back or drippage from treated wood, precipitation, and surface water run-on to an associated collection system at wood preserving plants.

(40) **Elementary neutralization unit** - A device which:

(A) is used for neutralizing wastes which are hazardous only because they exhibit the corrosivity characteristic defined in 40 CFR §261.22, or are listed in 40 CFR Part 261, Subpart D, only for this reason; or is used for neutralizing the pH of non-hazardous industrial solid waste; and

(B) meets the definition of tank, tank system, container, transport vehicle, or vessel as defined in this section.

(41) **Environmental Protection Agency acknowledgment of consent** - The cable sent to EPA from the United States Embassy in a receiving country that acknowledges the written consent of the receiving country to accept the hazardous waste and describes the terms and conditions of the receiving country's consent to the shipment.

(42) **Environmental Protection Agency hazardous waste number** - The number assigned by the EPA to each hazardous waste listed in 40 CFR Part 261, Subpart D and to each characteristic identified in 40 CFR Part 261, Subpart C.

(43) **Environmental Protection Agency identification number** - The number assigned by the EPA or the commission to each generator, transporter, and processing, storage, or disposal facility.

(44) **Essentially insoluble** - Any material, which if representatively sampled and placed in static or dynamic contact with deionized water at ambient temperature for seven days, will not leach any quantity of any constituent of the material into the water in excess of current United States Public Health Service or EPA limits for drinking water as published in the Federal Register.

(45) **Equivalent method** - Any testing or analytical method approved by the administrator under 40 CFR §260.20 and §260.21.

(46) **Existing portion** - That land surface area of an existing waste management unit, included in the original Part A permit application, on which wastes have been placed prior to the issuance of a permit.

(47) **Existing tank system or existing component** - A tank system or component that is used for the storage or processing of hazardous waste and that is in operation, or for which installation has commenced on or prior to July 14, 1986. Installation will be considered to have commenced if the owner or operator has obtained all federal, state, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system and if either:

(A) a continuous on-site physical construction or installation program has begun; or

(B) the owner or operator has entered into contractual obligations--which cannot be canceled or modified without substantial loss--for physical construction of the site or installation of the tank system to be completed within a reasonable time.

(48) **Explosives or munitions emergency** - A situation involving the suspected or detected presence of unexploded ordnance (UXO), damaged or deteriorated explosives or munitions, an improvised explosive device (IED), other potentially explosive material or device, or other potentially harmful military chemical munitions or device, that creates an actual or potential imminent threat to human health, including safety, or the environment, including property, as determined by an explosives or munitions emergency response specialist. These situations may require immediate and expeditious action by an explosives or munitions emergency response specialist to control, mitigate, or eliminate the threat.

(49) **Explosives or munitions emergency response** - All immediate response activities by an explosives and munitions emergency response specialist to control, mitigate, or eliminate the actual or potential threat encountered during an explosives or munitions emergency, subject to the following:

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(A) an explosives or munitions emergency response includes in-place render-safe procedures, treatment or destruction of the explosives or munitions and/or transporting those items to another location to be rendered safe, treated, or destroyed;

(B) any reasonable delay in the completion of an explosives or munitions emergency response caused by a necessary, unforeseen, or uncontrollable circumstance will not terminate the explosives or munitions emergency; and

(C) explosives and munitions emergency responses can occur on either public or private lands and are not limited to responses at hazardous waste facilities.

(50) **Explosives or munitions emergency response specialist** - An individual trained in chemical or conventional munitions or explosives handling, transportation, render-safe procedures, or destruction techniques, including United States Department of Defense (DOD) emergency explosive ordnance disposal (EOD), technical escort unit (TEU), and DOD-certified civilian or contractor personnel; and, other federal, state, or local government, or civilian personnel similarly trained in explosives or munitions emergency responses.

(51) **Extrusion** - A process using pressure to force ground poultry carcasses through a decreasing-diameter barrel or nozzle, causing the generation of heat sufficient to kill pathogens, and resulting in an extruded product acceptable as a feed ingredient.

(52) **Facility** - Includes:

(A) all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of municipal hazardous waste or industrial solid waste. A facility may consist of several storage, processing, or disposal operational units (e.g., one or more landfills, surface impoundments, or combinations of them);

(B) for the purpose of implementing corrective action under §335.167 of this title (relating to Corrective Action for Solid Waste Management Units), all contiguous property under the control of the owner or operator seeking a permit for the storage, processing, and/or disposal of hazardous waste. This definition also applies to facilities implementing corrective action under Texas Water Code, §7.031 (Corrective Action Relating to Hazardous Waste).

(53) **Final closure** - The closure of all hazardous waste management units at the facility in accordance with all applicable closure requirements so that hazardous waste management activities under Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) and Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing or Disposal Facilities) are no longer conducted at the facility unless subject to the provisions in §335.69 of this title (relating to Accumulation Time).

(54) **Food-chain crops** - Tobacco, crops grown for human consumption, and crops grown for feed for animals whose products are consumed by humans.

(55) **Freeboard** - The vertical distance between the top of a tank or surface impoundment dike, and the surface of the waste contained therein.

(56) **Free liquids** - Liquids which readily separate from the solid portion of a waste under ambient temperature and pressure.

(57) **Generator** - Any person, by site, who produces municipal hazardous waste or industrial solid waste; any person who possesses municipal hazardous waste or industrial solid waste to be shipped to any other person; or any person whose act first causes the solid waste to become subject to regulation under this chapter. For the purposes of this regulation, a person who generates or possesses Class 3 wastes only shall not be considered a generator.

(58) **Groundwater** - Water below the land surface in a zone of saturation.

(59) **Hazardous industrial waste** - Any industrial solid waste or combination of industrial solid wastes identified or listed as a hazardous waste by the administrator of the EPA pursuant to the Resource Conservation and Recovery Act of 1976, §3001. The administrator has identified the characteristics of hazardous wastes and listed certain wastes as hazardous in 40 CFR Part 261. The executive director will maintain in the offices of the commission a current list of hazardous wastes, a current set of characteristics of hazardous waste, and applicable appendices, as promulgated by the administrator.

(60) **Hazardous substance** - Any substance designated as a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 40 CFR Part 302.

(61) **Hazardous waste** - Any solid waste identified or listed as a hazardous waste by the administrator of the EPA pursuant to the federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, 42 United States Code 6901 et seq., as amended.

(62) **Hazardous waste constituent** - A constituent that caused the administrator to list the hazardous waste in 40 CFR Part 261, Subpart D or a constituent listed in Table 1 of 40 CFR §261.24.

(63) **Hazardous waste management facility** - All contiguous land, including structures, appurtenances, and other improvements on the land, used for processing, storing, or disposing of hazardous waste. The term includes a publicly or privately owned hazardous waste management facility consisting of processing, storage, or disposal operational hazardous waste management units such as one or more landfills, surface impoundments, waste piles, incinerators, boilers, and industrial furnaces, including cement kilns, injection wells, salt dome waste containment caverns, land treatment facilities, or a combination of units.

(64) **Hazardous waste management unit** - A landfill, surface impoundment, waste pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or land treatment unit, or any other structure, vessel, appurtenance, or other improvement on land used to manage hazardous waste.

(65) **In operation** - Refers to a facility which is processing, storing, or disposing of solid waste or hazardous waste.

(66) **Inactive portion** - That portion of a facility which is not operated after November 19, 1980. (See also "active portion" and "closed portion.")

(67) **Incinerator** - Any enclosed device that:

(A) uses controlled flame combustion and neither meets the criteria for classification as a boiler, sludge dryer, or carbon regeneration unit, nor is listed as an industrial furnace; or

(B) meets the definition of infrared incinerator or plasma arc incinerator.

(68) **Incompatible waste** - A hazardous waste which is unsuitable for:

(A) placement in a particular device or facility because it may cause corrosion or decay of containment materials (e.g., container inner liners or tank walls); or

(B) commingling with another waste or material under uncontrolled conditions because the commingling might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, mists, fumes, or gases, or flammable fumes or gases.

(69) **Individual generation site** - The contiguous site at or on which one or more solid waste or hazardous wastes are generated. An individual generation site, such as a large manufacturing plant, may have one or more sources of solid waste or hazardous waste but is considered a single or individual generation site if the site or property is contiguous.

(70) **Industrial furnace** - Includes any of the following enclosed devices that use thermal treatment to accomplish recovery of materials or energy:

(A) cement kilns;

(B) lime kilns;

(C) aggregate kilns;

(D) phosphate kilns;

(E) coke ovens;

(F) blast furnaces;

(G) smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machines, roasters, and foundry furnaces);

(H) titanium dioxide chloride process oxidation reactors;

(I) methane reforming furnaces;

(J) pulping liquor recovery furnaces;

(K) combustion devices used in the recovery of sulfur values from spent sulfuric acid;

(L) halogen acid furnaces (HAFs) for the production of acid from halogenated hazardous waste generated by chemical production facilities where the furnace is located on the site of a chemical production facility, the acid product has a halogen acid content of at least 3.0%, the acid product is used in a manufacturing process, and, except for hazardous waste burned as fuel, hazardous waste fed to the furnace has a minimum halogen content of 20% as generated; and

(M) other devices the commission may list, after the opportunity for notice and comment is afforded to the public.

(71) **Industrial solid waste** - Solid waste resulting from or incidental to any process of industry or manufacturing, or mining or agricultural operation, which may include hazardous waste as defined in this section.

(72) **Infrared incinerator** - Any enclosed device that uses electric powered resistance heaters as a source of radiant heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

(73) **Inground tank** - A device meeting the definition of tank in this section whereby a portion of the tank wall is situated to any degree within the ground, thereby preventing visual inspection of that external surface area of the tank that is in the ground.

(74) **Injection well** - A well into which fluids are injected. (See also "underground injection.")

(75) **Inner liner** - A continuous layer of material placed inside a tank or container which protects the construction materials of the tank or container from the contained waste or reagents used to treat the waste.

(76) **Installation inspector** - A person who, by reason of his knowledge of the physical sciences and the principles of engineering, acquired by a professional education and related practical experience, is qualified to supervise the installation of tank systems.

(77) **International shipment** - The transportation of hazardous waste into or out of the jurisdiction of the United States.

✓ (78) **Lamp** - Has the definition adopted under §335.261 of this title (relating to Universal Waste Rule).

(79) **Land treatment facility** - A facility or part of a facility at which solid waste or hazardous waste is applied onto or incorporated into the soil surface and that is not a corrective action management unit; such facilities are disposal facilities if the waste will remain after closure.

(80) **Landfill** - A disposal facility or part of a facility where solid waste or hazardous waste is placed in or on land and which is not a pile, a land treatment facility, a surface impoundment, an injection well, a salt dome formation, a salt bed formation, an underground mine, a cave, or a corrective action management unit.

(81) **Landfill cell** - A discrete volume of a solid waste or hazardous waste landfill which uses a liner to provide isolation of wastes from adjacent cells or wastes. Examples of landfill cells are trenches and pits.

(82) **Leachate** - Any liquid, including any suspended components in the liquid, that has percolated through or drained from solid waste or hazardous waste.

(83) **Leak-detection system** - A system capable of detecting the failure of either the primary or secondary containment structure or the presence of a release of solid waste or hazardous waste or accumulated liquid in the secondary containment structure. Such a system must employ operational controls (e.g., daily visual inspections for releases into the secondary containment system of aboveground tanks) or consist of an interstitial monitoring device designed to detect continuously and automatically the failure of the primary or secondary containment structure or the presence of a release of solid waste or hazardous waste into the secondary containment structure.

(84) **Liner** - A continuous layer of natural or man-made materials, beneath or on the sides of a surface impoundment, landfill, or landfill cell, which restricts the downward or lateral escape of solid waste or hazardous waste, hazardous waste constituents, or leachate.

(85) **Management or hazardous waste management** - The systematic control of the collection, source separation, storage, transportation, processing, treatment, recovery, and disposal of solid waste or hazardous waste.

(86) **Manifest** - The waste shipping document which accompanies and is used for tracking the transportation, disposal, treatment, storage, or recycling of shipments of hazardous wastes or Class 1 industrial solid wastes. The form used for this purpose is TNRCC-0311 (Uniform Hazardous Waste Manifest) which is furnished by the executive director or may be printed through the agency's "Print Your Own Manifest Program."

(87) **Manifest document number** - A number assigned to the manifest by the commission for reporting and recordkeeping purposes.

(88) **Military munitions** - All ammunition products and components produced or used by or for the DOD or the United States Armed Services for national defense and security, including military munitions under the control of the DOD, the United States Coast Guard, the United States Department of Energy (DOE), and National Guard personnel. The term "military munitions":

(A) includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries used by DOD components, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof; and

(B) includes non-nuclear components of nuclear devices, managed under DOE's nuclear weapons program after all required sanitization operations under the Atomic Energy Act of 1954, as amended, have been completed; but

(C) does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components thereof.

(89) **Miscellaneous unit** - A hazardous waste management unit where hazardous waste is stored, processed, or disposed of and that is not a container, tank, surface impoundment, pile, land treatment unit, landfill, incinerator, boiler, industrial furnace, underground injection well with appropriate technical standards under Chapter 331 of this title (relating to Underground Injection Control), corrective action management unit, containment building, staging pile, or unit eligible for a research, development, and demonstration permit or under Chapter 305, Subchapter K of this title (relating to Research Development and Demonstration Permits).

(90) **Movement** - That solid waste or hazardous waste transported to a facility in an individual vehicle.

(91) **Municipal hazardous waste** - A municipal solid waste or mixture of municipal solid wastes which has been identified or listed as a hazardous waste by the administrator of the United States Environmental Protection Agency.

(92) **Municipal solid waste** - Solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities; including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial waste.

(93) **New tank system or new tank component** - A tank system or component that will be used for the storage or processing of hazardous waste and for which installation has commenced after July 14, 1986; except, however, for purposes of 40 CFR §264.193(g)(2) (incorporated by reference at §335.152(a)(8) of this title (relating to Standards)) and 40 CFR §265.193(g)(2) (incorporated by reference at §335.112(a)(9) of this title (relating to Standards)), a new tank system is one for which construction commences after July 14, 1986 (see also "existing tank system.")

(94) **Off-site** - Property which cannot be characterized as on-site.

(95) **Onground tank** - A device meeting the definition of tank in this section and that is situated in such a way that the bottom of the tank is on the same level as the adjacent surrounding surface so that the external tank bottom cannot be visually inspected.

(96) **On-site** - The same or geographically contiguous property which may be divided by public or private rights-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing, as opposed to going along, the right-of-way. Noncontiguous properties owned by the same person but connected by a right-of-way which he controls and to which the public does not have access, is also considered on-site property.

(97) **Open burning** - The combustion of any material without the following characteristics:

(A) control of combustion air to maintain adequate temperature for efficient combustion;

(B) containment of the combustion-reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion; and

(C) control of emission of the gaseous combustion products. (See also "incineration" and "thermal treatment.")

(98) **Operator** - The person responsible for the overall operation of a facility.

(99) **Owner** - The person who owns a facility or part of a facility.

(100) **Partial closure** - The closure of a hazardous waste management unit in accordance with the applicable closure requirements of Subchapters E and F of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; and Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing or Disposal Facilities) at a facility that contains other active hazardous waste management units. For example, partial closure may include the closure of a tank (including its associated piping and underlying containment systems), landfill cell, surface impoundment, waste pile, or other hazardous waste management unit, while other units of the same facility continue to operate.

(101) **PCBs or polychlorinated biphenyl compounds** - Compounds subject to Title 40, CFR Part 761.

(102) **Permit** - A written permit issued by the commission which, by its conditions, may authorize the permittee to construct, install, modify or operate a specified municipal hazardous waste or industrial solid waste storage, processing, or disposal facility in accordance with specified limitations.

(103) **Person** - Any individual, corporation, organization, government or governmental subdivision or agency, business trust, partnership, association or any other legal entity.

(104) **Personnel or facility personnel** - All persons who work at, or oversee the operations of, a solid waste or hazardous waste facility, and whose actions or failure to act may result in noncompliance with the requirements of this chapter.

(105) **Pesticide** - Has the definition adopted under §335.261 of this title.

(106) **Petroleum substance** - A crude oil or any refined or unrefined fraction or derivative of crude oil which is a liquid at standard conditions of temperature and pressure.

(A) Except as provided in subparagraph (C) of this paragraph for the purposes of this chapter, a "petroleum substance" shall be limited to a substance in or a combination or mixture of substances within the following list (except for any listed substance regulated as a hazardous waste under the federal Solid Waste Disposal Act, Subtitle C (42 United States Code §§6921, et seq.)) and which is liquid at standard conditions of temperature (20 degrees Centigrade) and pressure (1 atmosphere):

(i) basic petroleum substances - i.e., crude oils, crude oil fractions, petroleum feedstocks, and petroleum fractions;

(ii) motor fuels - a petroleum substance which is typically used for the operation of internal combustion engines and/or motors (which includes but is not limited to stationary engines and engines used in transportation vehicles and marine vessels);

(iii) aviation gasolines - i.e., Grade 80, Grade 100, and Grade 100-LL;

(iv) aviation jet fuels - i.e., Jet A, Jet A-1, Jet B, JP-4, JP-5, and JP-8;

(v) distillate fuel oils - i.e., Number 1-D, Number 1, Number 2-D, and Number 2;

(vi) residual fuel oils - i.e., Number 4-D, Number 4-light, Number 4, Number 5-light, Number 5-heavy, and Number 6;

(vii) gas-turbine fuel oils - i.e., Grade O-GT, Grade 1-GT, Grade 2-GT, Grade 3-GT, and Grade 4-GT;

(viii) illuminating oils - i.e., kerosene, mineral seal oil, long-time burning oils, 300 oil, and mineral colza oil;

(ix) lubricants - i.e., automotive and industrial lubricants;

(x) building materials - i.e., liquid asphalt and dust-laying oils;

(xi) insulating and waterproofing materials - i.e., transformer oils and cable oils;

(xii) used oils - (See definition for "used oil" in this section); and

(B) For the purposes of this chapter, a "petroleum substance" shall include solvents or a combination or mixture of solvents (except for any listed substance regulated as a hazardous waste under the federal Solid Waste Disposal Act, Subtitle C (42 United States Code §§6921, et seq.)) and which is liquid at standard conditions of temperature (20 degrees Centigrade) and pressure (1 atmosphere) i.e., Stoddard solvent, petroleum spirits, mineral spirits, petroleum ether, varnish makers' and painters' naphthas, petroleum extender oils, and commercial hexane.

(C) The following materials are not considered petroleum substances:

(i) polymerized materials, i.e., plastics, synthetic rubber, polystyrene, high and low density polyethylene;

(ii) animal, microbial, and vegetable fats;

(iii) food grade oils;

(iv) hardened asphalt and solid asphaltic materials - i.e., roofing shingles, roofing felt, hot mix (and cold mix); and

(v) cosmetics.

(107) **Pile** - Any noncontainerized accumulation of solid, nonflowing solid waste or hazardous waste that is used for processing or storage, and that is not a corrective action management unit or a containment building.

(108) **Plasma arc incinerator** - Any enclosed device using a high intensity electrical discharge or arc as a source of heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

(109) **Poultry** - Chickens or ducks being raised or kept on any premises in the state for profit.

(110) **Poultry carcass** - The carcass, or part of a carcass, of poultry that died as a result of a cause other than intentional slaughter for use for human consumption.

(111) **Poultry facility** - A facility that:

(A) is used to raise, grow, feed, or otherwise produce poultry for commercial purposes; or

(B) is a commercial poultry hatchery that is used to produce chicks or ducklings.

(112) **Primary exporter** - Any person who is required to originate the manifest for a shipment of hazardous waste in accordance with the regulations contained in 40 CFR Part 262, Subpart B, which are in effect as of November 8, 1986, or equivalent state provision, which specifies a treatment, storage, or disposal facility in a receiving country as the facility to which the hazardous waste will be sent and any intermediary arranging for the export.

(113) **Processing** - The extraction of materials, transfer, volume reduction, conversion to energy, or other separation and preparation of solid waste for reuse or disposal, including the treatment or neutralization of solid waste or hazardous waste, designed to change the physical, chemical, or biological character or composition of any solid waste or hazardous waste so as to neutralize such waste, or so as to recover energy or material from the waste or so as to render such waste nonhazardous, or less hazardous; safer to transport, store or dispose of; or amenable for recovery, amenable for storage, or reduced in volume. The transfer of solid waste for reuse or disposal as used in this definition does not include the actions of a transporter in conveying or transporting solid waste by truck, ship, pipeline, or other means. Unless the executive director determines that regulation of such activity is necessary to protect human health or the environment, the definition of processing does not include activities relating to those materials exempted by the administrator of the Environmental Protection Agency pursuant to the federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, 42 United States Code §§6901 et seq., as amended.

(114) **Publicly-owned treatment works (POTW)** - Any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of a liquid nature which is owned by a state or municipality (as defined by the Clean Water Act, §502(4)). The definition includes sewers, pipes or other conveyances only if they convey wastewater to a POTW providing treatment.

(115) **Qualified groundwater scientist** - A scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and has sufficient training and experience in groundwater hydrology and related fields as may be demonstrated by state registration, professional certifications, or completion of accredited university courses that enable that individual to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport.

(116) **Receiving country** - A foreign country to which a hazardous waste is sent for the purpose of treatment, storage, or disposal (except short-term storage incidental to transportation).

(117) **Regional administrator** - The regional administrator for the Environmental Protection Agency region in which the facility is located, or his designee.

(118) **Remediation** - The act of eliminating or reducing the concentration of contaminants in contaminated media.

(119) **Remediation waste** - All solid and hazardous wastes, and all media (including groundwater, surface water, soils, and sediments) and debris, which contain listed hazardous wastes or which themselves exhibit a hazardous waste characteristic, that are managed for the purpose of implementing corrective action requirements under §335.167 of this title (relating to Corrective Action for Solid Waste Management Units) and the Texas Water Code, §7.031 (Corrective Action Relating to Hazardous Waste. For a given facility, remediation wastes may originate only from within the facility boundary, but may include waste managed in implementing corrective action for releases beyond the facility boundary under the Texas Solid Waste Disposal Act, Texas Health and Safety Code Annotated (Vernon Pamphlet 1993), §361.303 (Corrective Action), §335.166(5) of this title (relating to Corrective Action Program), or §335.167(c) of this title (relating to Corrective Action for Solid Waste Management Units).

(120) **Remove** - To take waste, contaminated design or operating system components, or contaminated media away from a waste management unit, facility, or area to another location for storage, processing, or disposal.

(121) **Replacement unit** - A landfill, surface impoundment, or waste pile unit:

(A) from which all or substantially all the waste is removed; and

(B) that is subsequently reused to treat, store, or dispose of hazardous waste.

"Replacement unit" does not apply to a unit from which waste is removed during closure, if the subsequent reuse solely involves the disposal of waste from that unit and other closing units or corrective action areas at the facility, in accordance with an approved closure plan or EPA or state approved corrective action.

(122) **Representative sample** - A sample of a universe or whole (e.g., waste pile, lagoon, groundwater) which can be expected to exhibit the average properties of the universe or whole.

(123) **Run-off** - Any rainwater, leachate, or other liquid that drains over land from any part of a facility.

(124) **Run-on** - Any rainwater, leachate, or other liquid that drains over land onto any part of a facility.

(125) **Saturated zone or zone of saturation** - That part of the earth's crust in which all voids are filled with water.

(126) **Shipment** - Any action involving the conveyance of municipal hazardous waste or industrial solid waste by any means off-site.

(127) **Sludge dryer** - Any enclosed thermal treatment device that is used to dehydrate sludge and that has a maximum total thermal input, excluding the heating value of the sludge itself, of 2,500 Btu/lb of sludge treated on a wet-weight basis.

(128) **Small quantity generator** - A generator who generates less than 1,000 kg of hazardous waste in a calendar month.

(129) **Solid Waste** -

(A) Any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant or air pollution control facility, and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, municipal, commercial, mining, and agricultural operations, and from community and institutional activities, but does not include:

(i) solid or dissolved material in domestic sewage, or solid or dissolved material in irrigation return flows, or industrial discharges subject to regulation by permit issued pursuant to the Texas Water Code, Chapter 26 (an exclusion applicable only to the actual point source discharge that does not exclude industrial wastewaters while they are being collected, stored or processed before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment);

(ii) uncontaminated soil, dirt, rock, sand and other natural or man-made inert solid materials used to fill land if the object of the fill is to make the land suitable for the construction of surface improvements. The material serving as fill may also serve as a surface improvement such as a structure foundation, a road, soil erosion control, and flood protection. Man-made materials exempted under this provision shall only be deposited at sites where the construction is in progress or imminent such that rights to the land are secured and engineering, architectural, or other necessary planning have been initiated. Waste disposal shall be considered to have occurred on any land which has been filled with man-made inert materials under this provision if the land is sold, leased, or otherwise conveyed prior to the completion of construction of the surface improvement. Under such conditions, deed recordation shall be required. The deed recordation shall include the information required under §335.5(a) of this title (relating to Deed Recordation), prior to sale or other conveyance of the property;

(iii) waste materials which result from activities associated with the exploration, development, or production of oil or gas or geothermal resources, as those activities are defined in this section, and any other substance or material regulated by the Railroad Commission of Texas pursuant to the Natural Resources Code, §91.101, unless such waste, substance, or material results from activities associated with gasoline plants, natural gas or natural gas liquids processing plants, pressure maintenance plants, or repressurizing plants and is a hazardous waste as defined by the administrator of the United States Environmental Protection Agency pursuant to the federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, 42 United States Code §§6901 et seq., as amended; or

(iv) a material excluded by 40 CFR §261.4(a)(1) - (19), as amended through May 11, 1999, (64 FR 25408), subject to the changes in this clause, or by variance granted under §335.18 of this title (relating to Variances from Classification as a Solid Waste) and §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste). For the purposes of the exclusion under 40 CFR §261.4(a)(16), 40 CFR §261.38 is adopted by reference as amended through July 10, 2000 (65 FR 42292), and is revised as follows, with "subparagraph (A)(iv) under the

definition of 'Solid Waste' in 30 TAC §335.1" meaning "subparagraph (A)(iv) under the definition of 'Solid Waste' in §335.1 of this title (relating to Definitions)";

(I) in the certification statement under 40 CFR §261.38(c)(1)(i)(C)(4), the reference to "40 CFR §261.38" is changed to "40 CFR §261.38, as revised under subparagraph (A)(iv) under the definition of 'Solid Waste' in 30 TAC §335.1," and the reference to "40 CFR §261.28(c)(10)" is changed to "40 CFR §261.38(c)(10)";

(II) in 40 CFR §261.38(c)(2), the references to "§260.10 of this chapter" are changed to "§335.1 of this title (relating to Definitions)," and the reference to "parts 264 or 265 of this chapter" is changed to "Chapter 335, Subchapter E of this title (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) or Chapter 335, Subchapter F of this title (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities)";

(III) in 40 CFR §261.38(c)(3), (4), and (5), the references to "parts 264 and 265, or §262.34 of this chapter" are changed to "Chapter 335, Subchapter E of this title (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) and Chapter 335, Subchapter F of this title (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), or §335.69 of this title (relating to Accumulation Time)";

(IV) in 40 CFR §261.38(c)(5), the reference to "§261.6(c) of this chapter" is changed to "§335.24(e) and (f) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials)";

(V) in 40 CFR §261.38(c)(7), the references to "appropriate regulatory authority" and "regulatory authority" are changed to "executive director";

(VI) in 40 CFR §261.38(c)(8), the reference to "§262.11 of this chapter" is changed to "§335.62 of this title (relating to Hazardous Waste Determination and Waste Classification)";

(VII) in 40 CFR §261.38(c)(9), the reference to "§261.2(c)(4) of this chapter" is changed to "§335.1(129)(D)(iv) of this title (relating to Definitions)"; and

(VIII) in 40 CFR §261.38(c)(10), the reference to "implementing authority" is changed to "executive director."

(B) A discarded material is any material which is:

- (i) abandoned, as explained in subparagraph (C) of this paragraph;
- (ii) recycled, as explained in subparagraph (D) of this paragraph; or

(iii) considered inherently waste-like, as explained in subparagraph (E) of this paragraph.

(iv) a military munition identified as a solid waste in 40 CFR §266.202.

(C) Materials are solid wastes if they are abandoned by being:

(i) disposed of;

(ii) burned or incinerated; or

(iii) accumulated, stored, or processed (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.

(D) Except for materials described in subparagraph (H) of this paragraph, materials are solid wastes if they are "recycled" or accumulated, stored, or processed before recycling as specified in this subparagraph. The chart referred to as Table 1 indicates only which materials are considered to be solid wastes when they are recycled and is not intended to supersede the definition of solid waste provided in subparagraph (A) of this paragraph.

(i) Used in a manner constituting disposal. Materials noted with an asterisk in Column 1 of Table 1 are solid wastes when they are:

(I) applied to or placed on the land in a manner that constitutes disposal; or

(II) used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste). However, commercial chemical products listed in 40 CFR §261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use.

~~(ii) Burning for energy recovery. Materials noted with an asterisk in~~
Column 2 of Table 1 are solid wastes when they are:

(I) burned to recover energy; or

(II) used to produce a fuel or are otherwise contained in fuels (in which cases the fuel itself remains a solid waste). However, commercial chemical products, which are listed in 40 CFR §261.33, not listed in §261.33 but that exhibit one or more of the hazardous waste characteristics, or would be considered nonhazardous waste if disposed, are not solid wastes if they are fuels themselves and burned for energy recovery.

(iii) Reclaimed. Materials noted with an asterisk in Column 3 of Table 1 are solid wastes when reclaimed (except as provided under 40 CFR §261.4(a)(17)). Materials without

an asterisk in Column 3 of Table 1 are not solid wastes when reclaimed (except as provided under 40 CFR §261.4(a)(17)).

(iv) Accumulated speculatively. Materials noted with an asterisk in Column 4 of Table 1 are solid wastes when accumulated speculatively.

TABLE 1

	Use Constituting Disposal S.W. Def. (D)(i) (1)	Energy Recovery/Fuel S.W. Def. (D)(ii) (2)	Reclamation S.W. Def. (D)(iii) (3) ²	Speculative Accumulation S.W. Def. (D)(iv) (4)
Spent materials (listed hazardous & not listed characteristically hazardous)	*	*	*	*
Spent materials (nonhazardous) ¹	*	*	*	*
Sludges (listed hazardous in 40 CFR §261.31 or §261.32)	*	*	*	*
Sludges (not listed characteristically hazardous)	*	*		*
Sludges (nonhazardous) ¹	*	*		*
By-products (listed hazardous in 40 CFR §261.31 or §261.32)	*	*	*	*
By-products (not listed characteristically hazardous)	*	*		*
By-products (nonhazardous) ¹	*	*		*
Commercial chemical products (listed, not listed characteristically hazardous, and nonhazardous)	*	*		
Scrap metal other than excluded scrap metal (see §335.17(9)) (hazardous)	*	*	*	*
Scrap metal other than excluded scrap metal (see §335.17(9)) (nonhazardous) ¹	*	*	*	*

NOTE: The terms "spent materials", "sludges", "by-products", "scrap metal" and "excluded scrap metal" are defined in §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials).

¹These materials are governed by the provisions of §335.24(h) only.

²Except as provided in 40 CFR §261.4(a)(17) for mineral processing secondary materials

(E) Materials that are identified by the administrator of the EPA as inherently waste-like materials under 40 CFR §261.2(d) are solid wastes when they are recycled in any manner.

(F) Materials are not solid wastes when they can be shown to be recycled by being:

(i) used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed;

(ii) used or reused as effective substitutes for commercial products;

(iii) returned to the original process from which they were generated, without first being reclaimed or land disposed. The material must be returned as a substitute for feedstock materials. In cases where the original process to which the material is returned is a secondary process, the materials must be managed such that there is no placement on the land. In cases where the materials are generated and reclaimed within the primary mineral processing industry, the conditions of the exclusion found at 40 CFR §261.4(a)(17) apply rather than this provision; or

(iv) secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(I) only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;

(II) reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);

(III) the secondary materials are never accumulated in such tanks for over 12 months without being reclaimed; and

(IV) the reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.

(G) Except for materials described in subparagraph (H) of this paragraph, the following materials are solid wastes, even if the recycling involves use, reuse, or return to the original process, as described in subparagraph (F) of this paragraph:

(i) materials used in a manner constituting disposal, or used to produce products that are applied to the land;

(ii) materials burned for energy recovery, used to produce a fuel, or contained in fuels;

(iii) materials accumulated speculatively; or

(iv) materials deemed to be inherently waste-like by the administrator of the EPA, as described in 40 CFR §261.2(d)(1) - 2.

(H) With the exception of contaminated soils which are being relocated for use under §350.36 of this title (relating to Relocation of Soils Containing Chemicals of Concern for Reuse Purposes) and other contaminated media, materials that would otherwise be identified as nonhazardous solid wastes if disposed of are not considered solid wastes when recycled by being applied to the land or used as ingredients in products that are applied to the land, provided these materials can be shown to meet all of the following criteria:

(i) a legitimate market exists for the recycling material as well as its products;

(ii) the recycling material is managed and protected from loss as would be raw materials or ingredients or products;

(iii) the quality of the product is not degraded by substitution of raw material/product with the recycling material;

(iv) the use of the recycling material is an ordinary use and it meets or exceeds the specifications of the product it is replacing without treatment or reclamation, or if the recycling material is not replacing a product, the recycling material is a legitimate ingredient in a production process and meets or exceeds raw material specifications without treatment or reclamation;

(v) the recycling material is not burned for energy recovery, used to produce a fuel or contained in a fuel;

(vi) the recycling material can be used as a product itself or to produce products as it is generated without treatment or reclamation;

(vii) the recycling material must not present an increased risk to human health, the environment, or waters in the state when applied to the land or used in products which are applied to the land and the material, as generated:

(I) is a Class 3 waste under Chapter 335, Subchapter R of this title (relating to Waste Classification), except for arsenic, cadmium, chromium, lead, mercury, nickel, selenium, and total dissolved solids; and

(II) for the metals listed in subclause (I) of this clause:

(-a-) is a Class 2 or Class 3 waste under Chapter 335, Subchapter R of this title; and

(-b-) does not exceed a concentration limit under 30
TAC §312.43(b)(3), Table 3; and

(viii) notwithstanding the requirements under §335.17(a)(8) of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials):

(I) at least 75% (by weight or volume) of the annual production of the recycling material must be recycled or transferred to a different site and recycled on an annual basis; and

(II) if the recycling material is placed in protective storage, such as a silo or other protective enclosure, at least 75% (by weight or volume) of the annual production of the recycling material must be recycled or transferred to a different site and recycled on a biennial basis.

(I) Respondents in actions to enforce the industrial solid waste regulations who raise a claim that a certain material is not a solid waste, or is conditionally exempt from regulation, must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so and that the recycling activity is legitimate and beneficial.

(J) Materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under 40 CFR §261.3(c) unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.

(K) Other portions of this chapter that relate to solid wastes that are recycled include §335.6 of this title (relating to Notification Requirements), §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), §335.18 of this title (relating to Variances from Classification as a Solid Waste), §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste), §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), and Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Materials).

(130) **Sorbent** - A material that is used to soak up free liquids by either adsorption or absorption, or both. Sorb means to either adsorb or absorb, or both.

(131) **Spill** - The accidental spilling, leaking, pumping, emitting, emptying, or dumping of solid waste or hazardous wastes or materials which, when spilled, become solid waste or hazardous wastes into or on any land or water.

(132) **Staging pile** - An accumulation of solid, non-flowing remediation waste, as defined in this section, that is not a containment building and that is used only during remedial operations for temporary storage at a facility. Staging piles must be designated by the executive director according to the requirements of 40 CFR §264.554, as adopted by reference under §335.152(a) of this title (relating to Standards).

(133) **Storage** - The holding of solid waste for a temporary period, at the end of which the waste is processed, disposed of, recycled or stored elsewhere.

(134) **Sump** - Any pit or reservoir that meets the definition of tank in this section and those troughs/trenches connected to it that serve to collect solid waste or hazardous waste for transport to solid waste or hazardous waste storage, processing, or disposal facilities; except that as used in the landfill, surface impoundment, and waste pile rules, "sump" means any lined pit or reservoir that serves to collect liquids drained from a leachate collection and removal system or leak detection system for subsequent removal from the system.

(135) **Surface impoundment or impoundment** - A facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well or a corrective action management unit. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

(136) **Tank** - A stationary device, designed to contain an accumulation of solid waste which is constructed primarily of non-earthen materials (e.g., wood, concrete, steel, plastic) which provide structural support.

(137) **Tank system** - A solid waste or hazardous waste storage or processing tank and its associated ancillary equipment and containment system.

(138) **TEQ** - Toxicity equivalence, the international method of relating the toxicity of various dioxin/furan congeners to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin.

(139) **Thermal processing** - The processing of solid waste or hazardous waste in a device which uses elevated temperatures as the primary means to change the chemical, physical, or biological character or composition of the solid waste or hazardous waste. Examples of thermal processing are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. (See also "incinerator" and "open burning.")

(140) **Thermostat** - Has the definition adopted under §335.261 of this title.

(141) **Totally enclosed treatment facility** - A facility for the processing of hazardous waste which is directly connected to an industrial production process and which is constructed and operated in a manner which prevents the release of any hazardous waste or any constituent thereof into the environment during processing. An example is a pipe in which acid waste is neutralized.

(142) **Transfer facility** - Any transportation-related facility including loading docks, parking areas, storage areas, and other similar areas where shipments of hazardous or industrial solid waste are held during the normal course of transportation.

(143) **Transit country** - Any foreign country, other than a receiving country, through which a hazardous waste is transported.

(144) **Transport vehicle** - A motor vehicle or rail car used for the transportation of cargo by any mode. Each cargo-carrying body (trailer, railroad freight car, etc.) is a separate transport vehicle. Vessel includes every description of watercraft, used or capable of being used as a means of transportation on the water.

(145) **Transporter** - Any person who conveys or transports municipal hazardous waste or industrial solid waste by truck, ship, pipeline, or other means.

(146) **Treatability study** - A study in which a hazardous or industrial solid waste is subjected to a treatment process to determine:

- (A) whether the waste is amenable to the treatment process;
- (B) what pretreatment (if any) is required;
- (C) the optimal process conditions needed to achieve the desired treatment;
- (D) the efficiency of a treatment process for a specific waste or wastes; or

(E) the characteristics and volumes of residuals from a particular treatment process. Also included in this definition for the purpose of 40 CFR §261.4(e) and (f) (§§335.2, 335.69, and 335.78 of this title (relating to Permit Required; Accumulation Time; and Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators)) exemptions are liner compatibility, corrosion, and other material compatibility studies and toxicological and health effects studies. ~~A treatability study is not a means to commercially treat or dispose of hazardous or industrial solid waste.~~

(147) **Treatment** - To apply a physical, biological, or chemical process(es) to wastes and contaminated media which significantly reduces the toxicity, volume, or mobility of contaminants and which, depending on the process(es) used, achieves varying degrees of long-term effectiveness.

(148) **Treatment zone** - A soil area of the unsaturated zone of a land treatment unit within which hazardous constituents are degraded, transferred, or immobilized.

(149) **Underground injection** - The subsurface emplacement of fluids through a bored, drilled, or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension. (See also "injection well.")

(150) **Underground tank** - A device meeting the definition of tank in this section whose entire surface area is totally below the surface of and covered by the ground.

(151) **Unfit-for-use tank system** - A tank system that has been determined through an integrity assessment or other inspection to be no longer capable of storing or processing solid waste or hazardous waste without posing a threat of release of solid waste or hazardous waste to the environment.

(152) **Universal waste** - Any of the hazardous wastes defined as universal waste under §335.261(b)(13)(F) of this title that are managed under the universal waste requirements of Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule).

(153) **Universal waste handler** - Has the definition adopted under §335.261 of this title.

(154) **Universal waste transporter** - Has the definition adopted under §335.261 of this title.

(155) **Unsaturated zone or zone of aeration** - The zone between the land surface and the water table.

(156) **Uppermost aquifer** - The geologic formation nearest the natural ground surface that is an aquifer, as well as lower aquifers that are hydraulically interconnected within the facility's property boundary.

(157) **Used oil** - Any oil that has been refined from crude oil, or any synthetic oil, that has been used, and, as a result of such use, is contaminated by physical or chemical impurities. Used oil fuel includes any fuel produced from used oil by processing, blending, or other treatment. Rules applicable to nonhazardous used oil, oil characteristically hazardous from use versus mixing, Conditionally Exempt Small Quantity Generator (CESQG) hazardous used oil, and household used oil after collection that will be recycled are found in Chapter 324 of this title (relating to Used Oil) and 40 CFR Part 279 (Standards for Management of Used Oil).

(158) **Wastewater treatment unit** - A device which:

(A) is part of a wastewater treatment facility subject to regulation under either the Federal Water Pollution Control Act (Clean Water Act), 33 United States Code §466 et seq., §402 or §307(b), as amended;

(B) receives and processes or stores an influent wastewater which is a hazardous or industrial solid waste, or generates and accumulates a wastewater treatment sludge which is a hazardous or industrial solid waste, or processes or stores a wastewater treatment sludge which is a hazardous or industrial solid waste; and

(C) meets the definition of tank or tank system as defined in this section.

(159) **Water (bulk shipment)** - The bulk transportation of municipal hazardous waste or Class 1 industrial solid waste which is loaded or carried on board a vessel without containers or labels.

(160) **Well** - Any shaft or pit dug or bored into the earth, generally of a cylindrical form, and often walled with bricks or tubing to prevent the earth from caving in.

(161) **Zone of engineering control** - An area under the control of the owner/operator that, upon detection of a solid waste or hazardous waste release, can be readily cleaned up prior to the release of solid waste or hazardous waste or hazardous constituents to groundwater or surface water.

Adopted October 24, 2001

Effective November 15, 2001

§335.2. Permit Required.

(a) Except with regard to storage, processing, or disposal to which subsections (c)-(h) of this section apply, and as provided in §335.45(b) of this title (relating to Effect on Existing Facilities), and in accordance with the requirements of §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) and §335.25 of this title (relating to Handling, Storing, Processing, Transporting, and Disposing of Poultry Carcasses), and as provided in §332.4 of this title (relating to General Requirements), no person may cause, suffer, allow, or permit any activity of storage, processing, or disposal of any industrial solid waste or municipal hazardous waste unless such activity is authorized by a permit, amended permit, or other authorization from the Texas Natural Resource Conservation Commission or its predecessor agencies, the Texas Department of Health, or other valid authorization from a Texas state agency. No person may commence physical construction of a new hazardous waste management facility without first having submitted Part A and Part B of the permit application and received a finally effective permit.

(b) In accordance with the requirements of subsection (a) of this section, no generator, transporter, owner or operator of a facility, or any other person may cause, suffer, allow, or permit its wastes to be stored, processed, or disposed of at an unauthorized facility or in violation of a permit. In the event this requirement is violated, the executive director will seek recourse against not only the person who stored, processed, or disposed of the waste, but also against the generator, transporter, owner or operator, or other person who caused, suffered, allowed, or permitted its waste to be stored, processed, or disposed.

(c) Any owner or operator of a solid waste management facility that is in existence on the effective date of a statutory or regulatory change that subjects the owner or operator to a requirement to obtain a hazardous waste permit who has filed a hazardous waste permit application with the commission in accordance with the rules and regulations of the commission, may continue the storage, processing, or disposal of hazardous waste until such time as the Texas Natural Resource Conservation Commission (commission) approves or denies the application, or, if the owner or operator becomes subject to a requirement to obtain a hazardous waste permit after November 8, 1984, except as provided by the United States Environmental Protection Agency or commission rules relative to termination of interim status. If a solid waste facility which has become a commercial hazardous waste management facility as a result of the federal toxicity characteristic rule effective September 25, 1990, and is required to obtain a

hazardous waste permit, such facility that qualifies for interim status is limited to those activities that qualify it for interim status until the facility obtains the hazardous waste permit. Owners or operators of municipal hazardous waste facilities which satisfied this requirement by filing an application on or before November 19, 1980, with the United States Environmental Protection Agency are not required to submit a separate application with the Texas Department of Health. Applications filed under this section shall meet the requirements of §335.44 of this title (relating to Application for Existing On-Site Facilities). Owners and operators of solid waste management facilities that are in existence on the effective date of statutory or regulatory amendments under the Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361 (Vernon's Supplement 1991), Texas Civil Statutes, Article 4477-7, or the Resource Conservation and Recovery Act of 1976, as amended, 42 United States Code, §§6901 et seq., that render the facility subject to the requirement to obtain a hazardous waste permit, may continue to operate if Part A of their permit application is submitted no later than six months after the date of publication of regulations by the United States Environmental Protection Agency pursuant to the Resource Conservation and Recovery Act of 1976, as amended, which first require them to comply with the standards set forth in Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), or Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Facilities); or 30 days after the date they first become subject to the standards set forth in these subchapters, whichever first occur; or for generators who generate greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month and who process, store, or dispose of these wastes on-site, a Part A permit application shall be submitted to the United States Environmental Protection Agency by March 24, 1987, as required by 40 Code of Federal Regulations, §270.10(e)(1)(iii). This subsection shall not apply to a facility if it has been previously denied a hazardous waste permit or if authority to operate the facility has been previously terminated. Applications filed under this section shall meet the requirements of §335.44 of this title (relating to Application for Existing On-Site Facilities). For purposes of this subsection, a solid waste management facility is in existence if the owner or operator has obtained all necessary federal, state, and local preconstruction approvals or permits, as required by applicable federal, state, and local hazardous waste control statutes, regulations, or ordinances; and either:

(1) a continuous physical, on-site construction program has begun; or

(2) the owner or operator has entered into contractual obligations, which cannot be cancelled or modified without substantial loss, for construction of the facility to be completed within a reasonable time.

(d) No permit shall be required for:

(1) the processing or disposal of nonhazardous industrial solid waste, if the waste is processed or disposed on property owned or otherwise effectively controlled by the owner or operator of the industrial plant, manufacturing plant, mining operation, or agricultural operation from which the waste results or is produced; the property is within 50 miles of the plant or operation; and the waste is not commingled with waste from any other source or sources (An industrial plant, manufacturing plant, mining operation, or agricultural operation owned by one person shall not be considered an "other source" with respect to other plants and operations owned by the same person.);

(2) the storage of nonhazardous industrial solid waste, if the waste is stored on property owned or otherwise effectively controlled by the owner or operator of the industrial plant, manufacturing plant, mining operation, or agricultural operation from which the waste results or is produced, and the waste is not commingled with waste from any other source or sources (An industrial plant, manufacturing plant, mining operation, or agricultural operation owned by one person shall not be considered an "other source" with respect to other plants and operations owned by the same person.);

(3) the storage or processing of nonhazardous industrial solid waste, if the waste is processed in an elementary neutralization unit, or a wastewater treatment unit;

(4) the collection, storage, or processing of nonhazardous industrial solid waste, if the waste is collected, stored, or processed as part of a treatability study;

(5) the storage of nonhazardous industrial solid waste, if the waste is stored in a transfer facility in containers for a period of 10 days or less, unless the executive director determines that a permit should be required in order to protect human health and the environment; or

(6) the storage or processing of nonhazardous industrial solid waste, if the waste is processed in a publicly owned treatment works with discharges subject to regulation under the Clean Water Act, §402, as amended through October 4, 1996, if the owner or operator has a National Pollutant Discharge Elimination System permit and complies with the conditions of that permit.

(e) No permit shall be required for the on-site storage of hazardous waste by a person who is a conditionally exempt small quantity generator as described in §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators).

(f) No permit under this chapter shall be required for the storage, processing, or disposal of hazardous waste by a person described in §335.41(b)-(d) of this title (relating to Purpose, Scope, and Applicability) or for the storage of hazardous waste under the provisions of 40 Code of Federal Regulations §261.4(c) and (d).

(g) No permit under this chapter shall be required for the storage, processing, or disposal of hazardous industrial waste or municipal hazardous waste which is generated or collected for the purpose of conducting treatability studies. Such samples are subject to the requirements set out at 40 Code of Federal Regulations §261.4(e) and (f), as amended and adopted in the Code of Federal Regulations through February 18, 1994, at 59 FedReg 8362, which are adopted herein by reference.

(h) A person may obtain authorization from the executive director for the storage, processing, or disposal of nonhazardous industrial solid waste in an interim status landfill which has qualified for interim status pursuant to 40 Code of Federal Regulations, Part 270, Subpart G, and which has complied with the standards set forth in Subpart E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing or Disposal Facilities), by complying with the notification and information requirements as set forth in §335.6 of this title (relating to Notification Requirements). The executive director may approve or deny the request for authorization or grant the request for authorization subject to conditions which may include, without limitation, public notice and

technical requirements. A request for authorization for the disposal of nonhazardous industrial solid waste under this subsection shall not be approved unless the executive director determines that the subject facility is suitable for disposal of such waste at the facility as requested. At a minimum, a determination of suitability by the executive director must include approval by the executive director of construction of a hazardous waste landfill meeting the design requirements of Title 40, Code of Federal Regulations, §265.301(a). In accordance with §335.6 of this title (relating to Notification Requirement), such person shall not engage in the requested activities if denied by the executive director or unless 90 days' notice has been provided and the executive director approves the request except where express executive director approval has been obtained prior to the expiration of the 90 days. Authorization may not be obtained under this subsection for:

(1) nonhazardous industrial solid waste, the storage, processing, or disposal of which is expressly prohibited under an existing permit or site development plan applicable to the facility or a portion of the facility;

(2) PCB wastes subject to regulation by 40 Code of Federal Regulations, Part 761;

(3) explosives and shock-sensitive materials;

(4) pyrophorics;

(5) infectious materials;

(6) liquid organic peroxides;

(7) radioactive or nuclear waste materials, receipt of which would require a license from the Texas Department of Health or Texas Natural Resource Conservation Commission or any other successor agency; and

(8) friable asbestos waste unless authorization is obtained in compliance with the procedures established under § 330.136(b)(6)(B)-(E) of this title (relating to Disposal of Special Wastes). Authorizations obtained under this subsection shall be effective during the pendency of the interim status and shall cease upon the termination of interim status, final administrative disposition of the subject permit application, failure of the facility to operate the facility in compliance with the standards set forth in Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), or as otherwise provided by law.

(i) Owners or operators of hazardous waste management units must have permits during the active life (including the closure period) of the unit. Owners or operators of surface impoundments, landfills, land treatment units, and waste pile units that received wastes after July 26, 1982, or that certified closure (according to 40 Code of Federal Regulations, §265.115) after January 26, 1983, must have post-closure permits, unless they demonstrate closure by removal as provided under 40 Code of Federal Regulations, §270.1(c)(5) and (6). If a post-closure permit is required, the permit must address applicable provisions of 40 Code of Federal Regulations, Part 264, and Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or

Disposal Facilities) provisions relating to Groundwater Monitoring, Unsaturated Zone Monitoring, Corrective Action, and Post-closure Care Requirements. The denial of a permit for the active life of a hazardous waste management facility or unit does not affect the requirement to obtain a post-closure permit under this section.

(j) Upon receipt of the federal Hazardous and Solid Waste Act (HSWA) authorization for the commission's Hazardous Waste Program, the commission shall be authorized to enforce the provisions that the Environmental Protection Agency (EPA) imposed in hazardous waste permits that were issued before the HSWA authorization was granted.

(k) Any person who intends to conduct an activity under subsection (d) of this section shall comply with the notification requirements of §335.6 of this title (relating to Notification Requirements).

(l) No permit shall be required for the management of universal wastes by universal waste handlers or universal waste transporters, in accordance with the definitions and requirements of Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule).

Adopted April 5, 2000

Effective April 30, 2000

§335.3. Technical Guidelines.

In order to promote the proper collection, handling, storage, processing, and disposal of industrial solid waste or municipal hazardous waste in a manner consistent with the purposes of Texas Health and Safety Code, Chapter 361, the executive director will make available on request, copies of technical guidelines outlining methods designed to aid in the prevention of the conditions prohibited in this chapter. Guidelines should be considered as suggestions only.

Adopted October 24, 2001

Effective November 15, 2001

§335.4. General Prohibitions.

~~In addition to the requirements of §335.2 of this title (relating to Permit Required), no person may cause, suffer, allow, or permit the collection, handling, storage, processing, or disposal of industrial solid waste or municipal hazardous waste in such a manner so as to cause:~~

(1) the discharge or imminent threat of discharge of industrial solid waste or municipal hazardous waste into or adjacent to the waters in the state without obtaining specific authorization for such a discharge from the Texas Natural Resource Conservation Commission;

(2) the creation and maintenance of a nuisance; or

(3) the endangerment of the public health and welfare.

Adopted October 24, 2001

Effective November 15, 2001

§335.5. Deed Recordation of Waste Disposal.

(a) Deed recordation of disposal of industrial solid waste or municipal hazardous waste. No person may cause, suffer, allow, or permit the disposal of industrial solid waste or municipal hazardous waste in a landfill prior to recording in the county deed records of the county or counties in which the disposal takes place, the following information:

(1) a metes and bounds description of the portion or portions of the tract of land on which disposal of industrial solid waste or municipal hazardous waste will take place;

(2) the class or classes of industrial solid wastes or municipal hazardous wastes to be disposed of and waste description; and

(3) the name or permanent address of the person or persons operating the facility where more specific information on the disposal activity can be obtained.

(b) Proof of recordation. Proof of recordation shall be provided to the executive director in writing prior to instituting disposal operations.

(c) Additional requirements. Owners of property on which facilities for disposal of hazardous waste are located are subject to further requirements adopted by reference in §335.112(a)(6) of this title (relating to Standards).

Effective October 19, 1998

§335.6. Notification Requirements.

(a) Any person who intends to store, process, or dispose of industrial solid waste without a permit, as authorized by §335.2(d), (e), (f), or (h) of this title (relating to Permit Required) or §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), shall notify the executive director in writing or using electronic notification software provided by the executive director, that storage, processing, or disposal activities are planned, at least 90 days prior to engaging in such activities. Recycling operations may commence 90 days after the initial notification of the intent to recycle, or upon receipt of confirmation that the executive director has reviewed the information found in this section. The executive director may require submission of information necessary to determine whether storage, processing, or disposal is compliant with the terms of this chapter. Required information may include, but is not limited to, information concerning waste composition, waste management methods, facility engineering plans and specifications, or the geology where the facility is located. Any registered generator who generates 1,000 kilograms or more of hazardous waste in any calendar month, must meet the requirements of this subsection by electronic notification using software provided by the executive director unless the executive director has granted a written request to use paper forms or an alternative notification method or the software does not have features capable of meeting the requirements.

(b) Any person who stores, processes, or disposes of municipal hazardous waste or industrial solid waste shall have the continuing obligation to immediately provide notice to the executive director in writing or using electronic notification software provided by the executive director, of any changes or additional information concerning waste composition, waste management methods, facility engineering plans and specifications, or the geology where the facility is located to that reported in subsection (a) of this section, authorized in any permit, or stated in any application filed with the commission. Any registered generator who generates 1,000 kilograms or more of hazardous waste in any calendar month, must meet the requirements of this subsection by electronic notification using software provided by the executive director unless the executive director has granted a written request to use paper forms or an alternative notification method or the software does not have features capable of meeting the requirements.

(c) Any person who generates hazardous waste in a quantity greater than the limits specified in §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators) in any calendar month or greater than 100 kilograms in any calendar month of industrial Class 1 waste shall notify the executive director of such activity using electronic notification software or paper forms provided by the executive director. Any registered generator who generates 1,000 kilograms or more of hazardous waste in any calendar month, must meet the requirements of this subsection by electronic notification using software provided by the executive director unless the executive director has granted a written request to use paper forms or an alternative notification method or the software does not have features capable of meeting the requirements. The executive director may require submission of information necessary to determine whether the storage, processing, or disposal is compliant with the terms of this chapter. Notifications submitted pursuant to this section shall be in addition to information provided in any permit applications required by §335.2 of this title, or any reports required by §335.9 of this title (relating to Recordkeeping and Annual Reporting Procedures Applicable to Generators), §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste), and §335.13 of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste). Any person who provides notification pursuant to this subsection shall have the continuing obligation to immediately document any changes or additional information with respect to such notification and within 90 days of the occurrence of such change or of becoming aware of such additional information, provide notice to the executive director in writing or using electronic notification software provided by the executive director, of any such changes or additional information to that reported previously. Any registered generator who generates 1,000 kilograms or more of hazardous waste in any calendar month, must meet the requirements of this subsection by electronic notification using software provided by the executive director unless the executive director has granted a written request to use paper forms or an alternative notification method or the software does not have features capable of meeting the requirements. If waste is recycled on-site or managed pursuant to §335.2(d) of this title, the generator must also comply with the notification requirements specified in subsection (h) of this section. The information submitted pursuant to the notification requirements of this subchapter and to the additional requirements of §335.503 of this title (relating to Waste Classification and Waste Coding Required) shall include, but is not limited to:

- (1) a description of the waste;

(2) a description of the process generating the waste;

(3) the composition of the waste;

(4) a proper hazardous waste determination which includes the appropriate EPA hazardous waste number(s) described in 40 Code of Federal Regulations (CFR) Part 261. Generators must determine whether such waste is hazardous as defined in 40 CFR Part 261 and submit the results of that hazardous waste determination to the executive director;

(5) the disposition of each solid waste generated, if subject to the notification requirement of this subsection, including the following information:

(A) whether the waste is managed on-site and/or off-site;

(B) a description of the type and use of each on-site waste management facility unit;

(C) a listing of the wastes managed in each unit;

(D) whether each unit is permitted, or qualifies for an exemption, under §335.2 of this title.

(d) Any person who transports hazardous or Class 1 waste shall notify the executive director of such activity on forms furnished or approved by the executive director, except:

(1) industrial generators who generate less than 100 kilograms of Class 1 waste per month and less than the quantity limits of hazardous waste specified in §335.78 of this title and who only transport their own waste; and

(2) municipal generators who generate less than the quantity limits of hazardous waste specified in §335.78 of this title and who only transport their own waste.

(e) Persons operating transfer facilities in accordance with §335.94 of this title (relating to Transfer Facility Requirements) shall notify the executive director of such activity.

(f) Upon written request of the executive director, any person who ships, stores, processes, or disposes of industrial solid waste or hazardous waste, as defined in this subchapter, shall perform a chemical analysis of the solid waste and provide results of the analysis to the executive director.

(g) Any person who stores, processes, or disposes of industrial solid waste or municipal hazardous waste shall notify the executive director in writing of any activity of facility expansion not authorized by permit, at least 90 days prior to conducting such activity. Such person shall submit to the executive director upon request such information as may reasonably be required to enable the executive director to determine whether such activity is compliant with this chapter.

(h) Any person who conducts or intends to conduct the recycling of industrial solid waste or municipal hazardous waste as defined in §335.24 of this title or Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Facilities) and who is required to notify under §335.24 of this title or Subchapter H of this chapter must submit in writing to the executive director, at a minimum, the following information: the type(s) of industrial solid waste or municipal hazardous waste to be recycled, the method of storage prior to recycling, and the nature of the recycling activity. New recycling activities require such notification a minimum of 90 days prior to engaging in such activities. Recycling operations may commence 90 days after the initial notification of the intent to recycle, or upon receipt of confirmation that the executive director has reviewed the information found in this section. Persons engaged in recycling of industrial solid waste or municipal hazardous waste prior to the effective date of this section shall submit such notification within 60 days of the effective date of this subsection.

(i) The owner or operator of a facility qualifying for the small quantity burner exemption under 40 CFR §266.108 must provide a one-time signed, written notification to the EPA and to the executive director indicating the following:

(1) The combustion unit is operating as a small quantity burner of hazardous waste;

(2) The owner and operator are in compliance with the requirements of 40 CFR §266.108, §335.221(a)(19) of this title (relating to Applicability and Standards) and this subsection of this section; and

(3) The maximum quantity of hazardous waste that the facility may burn as provided by 40 CFR §266.108(a)(1).

(j) Notification and regulation requirements on nonhazardous used oil, oil made characteristically hazardous by use (instead of mixing), CESQG hazardous used oil, and household used oil after collection that will be recycled are found in Chapter 324 of this title (relating to Used Oil).

(k) Other portions of this chapter that relate to solid wastes that are recycled include §335.1 of this title (relating to Definitions), under the definition of "Solid Waste," §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), §335.18 of this title (relating to Variances from Classification as a Solid Waste), §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste), §335.24 of this title, and Subchapter H of this chapter.

Adopted October 24, 2001

Effective November 15, 2001

§335.7. Bond or Other Financial Assurance Required.

Authority to store, process, or dispose of industrial solid waste or municipal hazardous waste pursuant to a permit issued by the commission is contingent upon the execution and maintenance of a surety bond or other financial assurance acceptable to the executive director, in an amount specified in the permit, which provides for the closing of the solid waste storage, processing, or disposal facility in

accordance with the permit issued for the facility and all other rules of the commission. The commission may require the execution and maintenance of a surety bond or other financial assurance acceptable to the executive director for the closing of any solid waste facility exempt from the requirement of a permit under this chapter but subject to the requirement of a permit under the Texas Water Code, Chapter 26. Persons storing, processing or disposing of hazardous waste are subject to further requirements concerning financial assurance and closure and post-closure contained in Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing or Disposal Facilities).

Effective March 21, 2000

§335.8. Closure and Remediation.

(a) Applicability. The regulations of this section, in addition to other applicable rules, permits, or orders, establish the obligation for persons to perform closures or remediations for facilities or areas containing industrial solid waste or municipal hazardous waste. The person can fulfill this obligation by meeting the risk reduction standards of this section or the remedy standards of Chapter 350 of this title (relating to Texas Risk Reduction Program), depending on the time of initial notification to the executive director of intent to conduct closure or remediation. The regulations of this section will remain in effect for persons who notify the executive director before May 1, 2000, of a closure or remediation in accordance with this section, unless the person elects to comply fully with Chapter 350 of this title prior to that date. Persons who notify of a closure or remediation in response to this section have up to five years from May 1, 2000, within which to submit for executive director review and approval according to this section a final report which demonstrates attainment of risk reduction standards 1 or 2. Persons will automatically qualify for this grandfathering provision if they have received a letter from the agency acknowledging receipt of the initial notification, or submit other forms of documentation by May 1, 2001, that proper and timely notification had been made. The person who has submitted a final remedial investigation report that fully complies with §335.553(b)(1) of this title (relating to Risk Reduction Standard Number 3), prior to May 1, 2001, may elect to either continue under these rules or to proceed under Chapter 350 of this title. Any person who qualifies for this grandfathering provision and elects to continue using the provisions of this section may not use any of the provisions of Chapter 350 of this title. If the executive director denies approval of the final remedial investigation report under this section for reasons of technical inadequacy, the executive director may require the person to comply with the requirements of Chapter 350 of this title. For closures and remediations initially reported to the executive director on or after May 1, 2000, the person shall use the procedures of Chapter 350 of this title. The regulations in this section supplement but do not replace any requirements for closure or remediation specified in the regulations for the programs subject to these rules and shall continue to apply as specified in paragraphs (1) - (4) of this subsection to persons who qualify for this grandfathering provision.

(1) Any person who stores, processes, or disposes of industrial solid waste or municipal hazardous waste at a facility permitted under §335.2(a) of this title (relating to Permit Required), shall, unless specifically modified by other order of the commission, close the facility in accordance with the closing provisions of the permit.

(2) Any person who stores, processes, or disposes of hazardous waste is also subject to the applicable provisions relating to closure and post-closure in Subchapters E and F of this chapter (relating to Interim Standards for Hazardous Waste Storage, Processing, or Disposal Facilities; and Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities, respectively).

(3) Persons who have received approval of closure or remediation plans by the executive director and have either completed or not completed the action prior to June 28, 1993, may either maintain or complete the action, as applicable, according to the approved plan and are not subject to the requirements of this section unless a substantial change in circumstances develops at the facility or area which results in an unacceptable threat to human health or the environment as described in §350.35 of this title (relating to Substantial Change in Circumstances). Plans or reports submitted but not approved prior to June 28, 1993, will be reviewed according to the regulations in effect at the time of document submittal. If the executive director denies approval of the plan or report under those regulations for reasons of technical inadequacy, the person must then comply with the requirements of Chapter 350 of this title upon receipt of written notice from the executive director that the plan or report is not approved. Closure plans approved as part of an industrial solid or municipal hazardous waste permit which was issued prior to June 28, 1993, but not implemented at the time of permit renewal are subject to review for compliance with Chapter 350 of this title as part of the permit renewal process. Persons may resubmit such plans or reports that they have revised voluntarily to conform with the requirements of Chapter 350 of this title, unless such resubmittal would result in noncompliance with a previously approved or imposed schedule of compliance.

(4) The requirements of this section do not apply to substances discharged or spilled from storage tanks regulated by Chapter 334 of this title (relating to Underground and Aboveground Storage Tanks).

(b) Closure and Remediation Obligations. Persons identified in subsection (a) of this section have the obligation to conduct the activities described in paragraphs (1) - (4) of this subsection when performing a closure or remediation. Upon receipt of approval by the executive director of reports demonstrating compliance with all applicable requirements, the person has completed these obligations unless a substantial change in circumstances results in an unacceptable risk to human health or the environment as described in paragraph (5) of this subsection.

(1) Notify the executive director in writing of any closure or remediation activities as is further specified in subsection (c) of this section.

(2) Perform closure or remediation activities at the facility or area of unauthorized discharge which meet one or more of the risk reduction standards specified in subparagraphs (A) - (C) of this paragraph. Unless the requirement to close a waste management facility component is specified by other rule, permit, or order, the person will determine the time for initiation of closure. The timely remediation of unauthorized discharges resulting from continuing operation of a waste management facility component does not compel the closure of the component unless closure is a necessary part of the remedy to achieve protection of human health and the environment.

(A) Risk Reduction Standard Number 1. Closure/remediation to background--to remove and/or decontaminate all waste, waste residues, leachate, and contaminated media to background levels unaffected by waste management or industrial activities as further specified in §335.554 of this title (relating to Attainment of Risk Reduction Standard Number 1); or

(B) Risk Reduction Standard Number 2. Closure/remediation to health-based standards and criteria--to remove and/or decontaminate all waste, waste residues, leachate, and contaminated media to standards and criteria such that any substantial present or future threat to human health or the environment is eliminated as further specified in §335.555 of this title (relating to Attainment of Risk Reduction Standard Number 2); or

(C) Risk Reduction Standard Number 3. Closure/remediation with controls--to remove, decontaminate, and/or control all waste, waste residues, leachate, and contaminated media to levels and in a manner such that any substantial present or future threat to human health or the environment is eliminated or reduced to the maximum extent practicable, as further specified in §335.561 of this title (relating to Attainment of Risk Reduction Standard Number 3).

(3) Demonstrate in writing to the executive director that closure or remediation has been completed as is further specified in subsection (d) of this section.

(4) Perform any necessary post-closure care and deed certification or recordation activities as required by Subchapter S of this chapter (relating to Risk Reduction Standards).

(5) Respond on a continuing basis pursuant to paragraphs (1) - (4) of this subsection in the event that a substantial change in circumstances at the facility or area results in an unacceptable threat to human health or the environment. In response to these substantial changes in circumstances, the person shall comply with this subsection utilizing the then-prevailing criteria and perform such actions as necessary to provide protection of human health and the environment. A substantial change in circumstance can include, but is not limited to, the situations described in subparagraphs (A) - (D) of this paragraph.

(A) a failure of institutional or engineering controls to prevent or mitigate exposure at the approved performance level;

(B) a change in land use from nonresidential to residential; or

(C) an actual exposure condition is determined to be occurring at levels not protective of human health or the environment. For purposes of this subparagraph, changes made to Subchapter S of this chapter (relating to Risk Reduction Standards) in response to periodic reviews of the general procedures specified to generate numeric cleanup levels, or in response to annual revisions of Appendix II of Subchapter S to reflect new toxicity data, do not constitute a substantial change in circumstances, unless these changes are of such magnitude to present an unacceptable threat to human health or the environment when evaluated for future exposure conditions based on site-specific considerations; or

(D) new information indicates that the contamination at the facility or area was not sufficiently characterized such that an unacceptable threat to human health or the environment continues to exist.

(c) Notification and Initiation Requirements. Persons who qualify according to subsection (a) of this section for an extended period of time for submittal of a final report to be reviewed according to this section must also respond, as appropriate, to the requirements of paragraphs (1) - (5) of this subsection.

(1) A person who intends to continue any activity of closure or remediation in accordance with subsection (b) of this section shall determine the risk reduction standard(s) to be attained. If required by subsection (a) of this section to resubmit this notification, the person shall notify the executive director and the commission's office in the district where the facility or area is located in writing of the following information by May 1, 2001:

- (A) the facility or area to be subject to closure or remediation activities;
- (B) the risk reduction standard(s) to be attained; and
- (C) the estimated time necessary to complete the activity.

(2) After performing notification in accordance with paragraph (1) of this subsection, the person may initiate the actions necessary to attain risk reduction standard numbers 1 or 2 without prior approval by the executive director, unless such approval is required by other regulation, order, or permit of the commission. Any plan submitted for prior approval by the executive director shall contain the information specified in §335.553(a) of this title (relating to Required Information).

(3) If the person intends to attain Risk Reduction Standard Number 3, the person shall submit to the executive director the information specified in §335.553(b) of this title for approval prior to beginning or continuing, as applicable, the closure or remediation activities.

(4) The person may include one or more waste management units or areas in a submittal for the purpose of responding to this subsection and subsection (d) of this section.

(5) Notwithstanding any other requirement, the person shall submit to the executive director upon request such information as may reasonably be required to enable the executive director to determine whether the closure or remediation is compliant with this section.

(d) Demonstration of conformance with risk reduction standards. Upon completion of a closure or remediation, the person shall demonstrate in a form acceptable to the executive director that the activity meets the intended risk reduction standards and any applicable closure criteria listed or referenced in this chapter. Any submittal to the executive director in response to this subsection shall be in the form of a plan or report that contains the information specified in §335.553 of this title.

§335.9. Recordkeeping and Annual Reporting Procedures Applicable to Generators.

(a) Except with regard to nonhazardous recyclable materials regulated pursuant to §335.24(h) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), each generator of hazardous or industrial solid waste shall comply with the following.

(1) The generator shall keep records of all hazardous and industrial solid waste activities regarding the quantities generated, stored, processed, and disposed of on-site or shipped off-site for storage, processing, or disposal and which, at a minimum, includes the information described in subparagraphs (A) - (G) of this paragraph. These records may be maintained in any format, provided they are retrievable and easy to copy. The required records must be sufficiently detailed and complete to support any contentions or claims made by the generator with respect to:

(A) the description, character, and classification of each waste, and any changes and additional information required under §335.6(c) and (d) of this title (relating to Notification Requirements);

(B) the quantity generated;

(C) except for conditionally exempt small quantity generators regulated under §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated By Conditionally Exempt Small Quantity Generators), the quantity held in on-site storage as of December 31 of each calendar year;

(D) the quantity processed or disposed of at each on-site facility unit during the calendar year;

(E) the method of storage, processing, or disposal as described by codes listed on the form or instructions;

(F) the quantity shipped off-site for storage, processing, or disposal each calendar year, including the name, address, and location of each off-site facility and transporter receiving shipments;

(G) the location of all hazardous waste accumulation areas, situated at or near any point of generation, where hazardous wastes under the control of the operator of the process generating the wastes are placed in containers and initially accumulated without a permit or interim status in accordance with §335.69(d) of this title (relating to Accumulation Time).

(2) The generator shall submit to the executive director a complete and correct Annual Waste Summary detailing the management of each hazardous and Class 1 waste generated on-site during the reporting calendar year. The Annual Waste Summary shall also include the management of any hazardous or Class 1 waste generated in a year previous to the reporting year, but managed in the reporting calendar year. The Annual Waste Summary shall be submitted using electronic software or paper forms provided or approved by the executive director. Upon written request by the generator, the

executive director may authorize an extension to the report due date. Any registered generator who generates 1,000 kilograms or more of hazardous waste in any calendar month, must submit the Annual Waste Summary using software provided by the executive director unless the executive director has granted a written request to use paper forms or an alternative reporting method. Generators shall report as follows.

(A) Generators submitting their Annual Waste Summary on paper forms must do so on or before January 25 of the year following the reporting calendar year.

(B) Generators submitting their Annual Waste Summary electronically must do so on or before March 1 of the year following the reporting calendar year.

(3) Generators are not required to submit the information required in paragraph (1) of this subsection if they certify on the annual summary that all of the following conditions have been met:

(A) during the year, total on-site accumulation of hazardous waste did not equal or exceed 1,000 kilograms;

(B) no acute hazardous waste was generated or accumulated during the year exceeding the limits specified in §335.78(e)(1) and (2) of this title;

(C) a total of less than 1,200 kilograms of hazardous waste, and a total of less than 1,200 kilograms of Class 1 waste (2,400 kilograms or less of hazardous waste plus Class 1 waste combined) was generated during the year.

(4) Generators who are regulated under §335.78 of this title and also meet the requirements of paragraph (3) of this subsection are not required to submit an annual summary.

(b) A generator who ships his hazardous waste off-site must also report the information specified in §335.71 of this title (relating to Biennial Reporting). Any waste related information that has already been submitted by generators under the requirements of this section or §335.71 of this title need not be included in the reports from permitted or interim status facilities under 40 CFR §264.75 or §265.75.

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§335.10. Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste.

✓ (a) Except as provided in subsection (g) and (h) of this section, no generator of hazardous or Class 1 waste consigned to an off-site solid waste process, storage, or disposal facility within the United States or primary exporters of hazardous waste consigned to a foreign country shall cause, suffer, allow, or permit the shipment of hazardous waste or Class 1 waste unless:

(1) for generators of industrial nonhazardous Class 1 waste in a quantity greater than 100 kilograms per month and/or generators of hazardous waste shipping hazardous waste which is part of a total quantity of hazardous waste generated in quantities greater than 100 kilograms in a calendar month, or quantities of acute hazardous waste in excess of quantities specified in §335.78(e) of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators), who consign that waste to an off-site solid waste storage, processing, or disposal facility in Texas; a Texas Natural Resource Conservation Commission (TNRCC) manifest on Form TNRCC-0311 is prepared;

(2) the generator is either an industrial generator that generates less than 100 kilograms of nonhazardous Class 1 waste per month and less than the quantity limits of hazardous waste specified in §335.78 of this title or a municipal generator that generates less than the quantity limit of hazardous waste specified in §335.78 of this title;

(3) for generators of hazardous waste or Class 1 waste generated in Texas for consignment to another state the consignment state's manifest, if provided, or a Texas state manifest if the consignment state does not provide a manifest, is prepared, unless the generator is identified in paragraph (2) of this section;

(4) for a primary exporter of hazardous waste for consignment to a foreign country the hazardous waste is accompanied by a manifest from the primary exporter's state if that state supplies the manifest form and requires its use or a manifest from any source if the primary exporter's state does not supply the manifest form; and

(5) a generator designates on the manifest one facility which is authorized to receive the waste described on the manifest. A generator may also designate one alternate facility which is authorized to receive the waste in the event an emergency prevents delivery of the waste to the primary designated facility. An alternate facility shall be identified on the manifest in the item marked "Special Handling Instructions and Additional Information." If the transporter is unable to deliver the waste to the designated facility or the alternate facility, the generator must either designate another facility or instruct the transporter to return the waste;

~~(6) for shipments of hazardous waste to a designated facility in an authorized state which has not yet obtained authorization to regulate that particular waste as hazardous, the generator must assure that the designated facility agrees to sign and return the manifest to the generator, and that any out-of-state transporter signs and forwards the manifest to the designated facility.~~

(b) The manifest shall contain the following information.

(1) The manifest shall contain the generator's United States Environmental Protection Agency (EPA) 12-digit identification number and the unique five-digit number assigned to the manifest by the generator. This requirement does not apply if the waste being shipped is nonhazardous or if the generator is a conditionally exempt small quantity generator of hazardous waste.

(2) The manifest shall contain the total number of pages used to complete the manifest, plus the number of continuation sheets, if any (page 1 of ____).

(3) The manifest shall contain the name, mailing address, and telephone number of the generator.

(4) The manifest shall contain the telephone number where an authorized agent of the generator may be reached in the event of an emergency.

(5) The manifest shall contain the generator's TNRCC registration and/or permit number. Conditionally exempt small quantity generators (CESQGs) of hazardous waste or industrial generators of less than 100 kg per month of nonhazardous Class 1 waste and less than CESQG limits of hazardous waste that are exempt from manifesting may voluntarily choose to manifest their hazardous or Class 1 industrial nonhazardous waste. Such exempt generators may utilize the letters "CESQG" for their TNRCC generator registration number.

(6) The manifest shall contain the first transporter's company name.

(7) The manifest shall contain the first transporter's EPA 12-digit identification number. This requirement does not apply if the waste being shipped is nonhazardous or the transporter is a conditionally exempt small quantity generator transporting only his own hazardous waste.

(8) The manifest shall contain the first transporter's state registration number. Conditionally exempt small quantity generators who are not required to notify of their transportation activities as specified in §335.6(d) of this title (relating to Notification Requirements) may use the letters "CESQG" as the TNRCC transporter's registration number when transporting their own hazardous or Class 1 nonhazardous waste.

(9) The manifest shall contain a telephone number where an authorized agent of first transporter may be reached in the event of an emergency.

(10) The manifest shall contain the second transporter's company name.

(11) The manifest shall contain the second transporter's EPA 12-digit identification number. This requirement does not apply if the waste being shipped is non-hazardous.

(12) The manifest shall contain the second transporter's state registration number.

(13) The manifest shall contain a telephone number where an authorized agent of the second transporter may be reached in the event of an emergency.

(14) The manifest shall contain the company name and site address of the facilities designated to receive the waste identified on the manifest and an alternate facility, if designated. Except as provided otherwise in §335.78 of this title for the shipment of hazardous wastes that are required to be manifested under subsection (a) of this section, generators shall designate on the manifest only those

storage, processing, or disposal facilities which are authorized under the Resource Conservation and Recovery Act (RCRA) of 1976, Subtitle C, or an approved state hazardous waste program administered in lieu thereof.

(15) The manifest shall contain the designated facility's EPA 12-digit identification number; however, this requirement does not apply if the waste being shipped is non-hazardous.

(16) The manifest shall contain the TNRCC storage, processing, or disposal facility registration and/or permit number.

(17) The manifest shall contain the appropriate notation in the hazardous materials (HM) column of the Texas uniform hazardous waste manifest. The form has been designed to allow the listing of both federally regulated wastes and wastes regulated solely by the state. In order to distinguish between federally regulated wastes and other waste, as required by United States Department of Transportation (DOT) regulations (49 Code of Federal Regulations (CFR) §172.201(a)(1)), the TNRCC has added an HM column on the manifest before the DOT description. When a waste shipment consists of both federally regulated materials and state-regulated wastes, the HM column must be checked or marked for only those line entries which are regulated under federal law as hazardous wastes or hazardous materials.

(18) The manifest shall contain the DOT proper shipping name, hazard class, and identification number (UN/NA) for each hazardous waste as identified in 49 CFR Parts 171-177. If the shipment contains non-hazardous waste solely regulated by the TNRCC, then the TNRCC waste classification code description should be used.

(19) The manifest shall contain the number of containers for each waste and the appropriate abbreviation from Table 1 from §335.30 of this title (relating to Appendix I) for the type of container.

(20) The manifest shall contain the total quantity of each waste described on each line.

(21) The manifest shall contain the unit of measure of each waste described on each line. The appropriate abbreviation for the unit of measure may be found in Appendix I, Table 1 of 40 CFR Parts 264 or 265.

(22) The manifest shall contain the TNRCC waste classification code assigned to the waste by the generator.

(23) The manifest shall contain a certification by the generator stating: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the practicable method of processing, storage, or disposal

currently available to me which minimizes the present and future threat to human health and the environment; or, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford."

(24) If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space provided below the word "highway". If another mode in addition to the highway mode is used, enter the appropriate additional mode (e.g., and rail) in the space provided below the word "highway."

(c) The manifest shall consist of at least the number of copies which will provide the generator, each transporter, the owner or operator of the storage, processing, or disposal facility and in the case of hazardous waste exports, the United States customs official, with one copy each for their records and another copy to be returned to the generator.

(d) At the time of waste transfer, the generator shall:

- (1) sign the manifest by hand;
- (2) obtain the handwritten signature of the initial transporter and date of acceptance on the manifest;
- (3) retain one copy, in accordance with §335.13(i) of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste); and
- (4) give the transporter the remaining copies of the manifest.

(e) For shipments of hazardous waste or Class 1 waste within the United States solely by water (bulk shipments only), the generator shall send three copies of the manifest dated and signed in accordance with this section to the owner or operator of the designated facility or to the last water (bulk shipment) transporter to handle the waste in the United States if exported by water. Copies of the manifest are not required for each transporter.

(f) For rail shipments of hazardous waste or Class 1 waste within the United States which originate at the site of generation, the generator shall send at least three copies of the manifest dated and signed in accordance with this section to:

- (1) the next non-rail transporter, if any;
- (2) the designated facility if transported solely by rail; or
- (3) the last rail transporter to handle the waste in the United States if exported by rail.

(g) No manifest is required for the shipment of Class 1 waste which is not hazardous waste to property owned or otherwise effectively controlled by the owner or operator of an industrial plant, manufacturing plant, mining operation, or agricultural operation from which the waste results or is produced, provided that the property is within 50 miles of the plant or operation and the waste is not commingled with waste from any other source or sources. An industrial plant, manufacturing plant, mining operation, or agricultural operation owned by one person shall not be considered another source with respect to other plants or operations owned by the same person.

(h) No manifest and no marking in accordance with §335.67(b) of this title (related to Marking) is required for hazardous waste transported on a public or private right-of-way within or along the border of contiguous property under the control of the same person, even if such contiguous property is divided by a public or private right-of-way. However, in the event of a hazardous waste discharge on a public or private right-of-way, the generator or transporter must comply with the requirements of §335.93 of this title (relating to Hazardous Waste Discharges).

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§335.11. Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste.

(a) No transporter may cause, suffer, allow, or permit the shipment of solid waste for which a manifest is required under §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary exporters of hazardous waste) to an off-site storage, processing, or disposal facility, unless the transporter:

(1) obtains a manifest completed by the generator or primary exporter where appropriate in accordance with §335.10 of this title;

(2) upon receipt and prior to shipment, signs and dates the manifest acknowledging the acceptance of waste from the generator or primary exporter where appropriate;

(3) returns a signed copy to the generator or primary exporter where appropriate before leaving the generator's property; and

(4) in the case of hazardous waste exports, knows that the shipment conforms to the requirements set forth in the regulations contained in 40 Code of Federal Regulations §263.20(a), as amended and adopted through April 12, 1996, at 61 FedReg 16290.

(b) The transporter shall ensure that the manifest accompanies the municipal hazardous waste or Class 1 waste.

(c) No transporter may cause, suffer, allow, or permit the delivery of a shipment of hazardous waste or Class 1 waste to another transporter designated on the manifest, unless the transporter:

(1) obtains the date of delivery and the handwritten signature of the accepting transporter on the manifest;

(2) retains one copy of the manifest in accordance with §335.14(a) of this title (relating to Recordkeeping Requirements Applicable to Transporters of Hazardous Waste or Class 1 Waste);

(3) gives the remaining copies of the manifest to the accepting transporter; and

(4) in the case of hazardous waste exports, ensures that a copy of the EPA acknowledgment of consent also accompanies the hazardous waste.

(d) No transporter may cause, suffer, allow, or permit the delivery of a shipment of municipal hazardous waste or Class 1 waste to a storage, processing, or disposal facility, unless the transporter:

(1) obtains the date of delivery and the handwritten signature on the manifest of the owner or operator of the facility designated on the manifest;

(2) retains one copy of the manifest in accordance with §335.14(a) of this title; and

(3) gives the remaining copies of the manifest to the owner or operator of the facility designated on the manifest.

(e) The requirements of subsections (b) - (d) and (f) of this section do not apply to water (bulk shipment) transporters if:

(1) the waste is delivered by water (bulk shipment) to the facility designated on the manifest;

(2) a shipping paper containing all the information required on the manifest (excluding the identification numbers, generator certification, and signatures) and, for hazardous waste exports, an EPA acknowledgment of consent accompanies the waste;

(3) the delivering transporter obtains the date of delivery and handwritten signature of the owner or operator of the facility on either the manifest or the shipping paper;

(4) the person delivering the waste to the initial water (bulk shipment) transporter obtains the date of delivery and the signature of the water (bulk shipment) transporter on the manifest and forwards it to the facility; and

(5) a copy of the shipping paper or manifest is retained by each water (bulk shipment) transporter in accordance with §335.14(b) of this title.

(f) For shipments involving rail transportation, the requirements of subsections (b) - (e) of this section do not apply and the following requirements do apply.

(1) When accepting Class 1 waste from a nonrail transporter, the initial rail transporter must:

- (A) sign and date, the manifest acknowledging acceptance of the waste;
- (B) return a copy of the manifest to the nonrail transporter;
- (C) forward at least three copies of the manifest to:
 - (i) the next non-rail transporter, if any;
 - (ii) the designated facility, if the shipment is delivered to that facility by rail; or
 - (iii) the last rail transporter designated to handle the waste in the United States;
- (D) retain one copy of the manifest and rail shipping paper in accordance with §335.14(c) of this title.

(2) Rail transporters must ensure that a shipping paper containing all the information required on the manifest (excluding the EPA identification numbers, generator certification, and signatures) and, for hazardous waste exports, an EPA acknowledgment of consent accompanies the waste at all times. Intermediate rail transporters are not required to sign either the manifest or shipping paper.

(3) When delivering Class 1 waste or municipal hazardous waste to the designated facility, a rail transporter must:

- (A) obtain the date of delivery and handwritten signature of the owner or operator of the designated facility on the manifest or shipping paper (if the manifest has not been received by the facility); and
- (B) retain a copy of the manifest or signed shipping paper in accordance with §335.14(c) of this title.

~~(4) When delivering hazardous waste or Class 1 waste to a nonrail transporter, a rail transporter must:~~

- ~~(A) obtain the date of delivery and the handwritten signature of the next nonrail transporter on the manifest; and~~
- ~~(B) retain a copy of the manifest in accordance with §335.14(c) of this title.~~

(5) Before accepting municipal hazardous waste or Class 1 waste from a rail transporter, a nonrail transporter must sign and date the manifest and provide a copy to the rail transporter.

(g) Transporters who transport hazardous waste or Class 1 waste out of the United States shall:

(1) indicate on the manifest the date the municipal hazardous waste or Class 1 waste left the United States under the item labeled "special handling instructions and additional information";

(2) sign the manifest and retain one copy in accordance with §335.14(c) of this title;

(3) return a signed copy of the manifest to the generator or primary exporter where appropriate; and

(4) give a copy of the manifest to a United States customs official at the point of departure from the United States.

(h) The transporter must deliver the entire quantity of municipal hazardous waste or Class 1 waste which he has accepted from a generator or a transporter to:

(1) the designated facility listed on the manifest;

(2) the alternate designated facility if the waste cannot be delivered to the designated facility because an emergency prevents delivery;

(3) the next designated transporter; or

(4) the place outside the United States designated by the generator.

(i) If the transporter cannot deliver the waste in accordance with subsection (h) of this section, the transporter must contact the generator for further directions and must revise the manifest according to the generator's instructions.

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§335.12. Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities.

(a) No owner or operator of a storage, processing, or disposal facility may accept delivery of solid waste for which a manifest is required under §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste), for off-site storage, processing, or disposal unless:

(1) a manifest accompanies the shipment which designates that facility to receive the waste; and

(2) the owner or operator signs the manifest and immediately gives at least one copy of the signed manifest to the transporter; and

(3) retains one copy of the manifest in accordance with §335.15(a) of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities);

(4) within 30 days after the delivery, sends a copy of the manifest to the generator or primary exporter where appropriate; and

(5) in the case of hazardous waste exports, a copy of the EPA acknowledgment of consent also accompanies the waste and the owner or operator has no knowledge that the shipment does not conform to the EPA acknowledgment of consent.

(b) If a facility receives, from a rail or water (bulk shipment) transporter, hazardous waste or Class 1 waste which is accompanied by a shipping paper containing all the information required on the manifest, the owner or operator, or his agent, shall:

(1) sign and date each copy of the manifest or shipping paper (if the manifest has not been received) to certify that the hazardous waste or Class 1 waste covered by the manifest or the shipping paper was received;

(2) immediately give the rail or water (bulk shipment) transporter at least one copy of the manifest or shipping paper (if the manifest has not been received);

(3) within 30 days after the delivery, send a copy of the signed and dated manifest to the generator; however, if the manifest has not been received within 30 days after delivery, the owner or operator, or his agent, must send a copy of the shipping paper signed and dated to the generator; and

(4) retain at the facility a copy of each shipping paper and manifest in accordance with §335.15(a) of this title.

(c) If a facility receives hazardous waste or Class 1 waste accompanied by a manifest, or in the case of shipments by rail or water (bulk shipment), by a shipping paper, the owner or operator, or his agent, must note any significant discrepancies on each copy of the manifest or shipping paper (if the manifest has not been received).

(1) Manifest discrepancies are differences between the quantity or type of hazardous waste or Class 1 waste designated on the manifest or shipping paper, and the quantity or type of hazardous waste or Class 1 waste a facility actually received. Significant discrepancies in type are obvious differences which can be discovered by inspection or waste analysis, such as waste solvent substituted for waste acid, or toxic constituents not reported in the manifest or shipping paper. Significant discrepancies in quantity are:

(A) for bulk weight, variations greater than 10% in weight; and

(B) for batch waste, any variation in piece count, such as a discrepancy of one drum in a truckload.

(2) Upon discovering a significant discrepancy, the owner or operator must attempt to reconcile the discrepancy with the waste generator or transporter (e.g., with telephone conversations). If the discrepancy is not resolved within 15 days after receiving the waste, the owner or operator must immediately submit to the executive director a letter describing the discrepancy and attempts to reconcile it, and a copy of the manifest or shipping paper at issue. The commission does not intend that the owner or operator of a facility perform the general waste analysis required by 40 Code of Federal Regulations (CFR) §264.13 or §265.13 before signing the manifest and giving it to the transporter. However, subsection (c) of this section does require reporting an unreconciled discrepancy discovered during later analysis.

(d) Within three working days of the receipt of a shipment subject to 40 CFR Part 262, Subpart H, concerning transfrontier shipments of hazardous waste for recovery within the Organization for Economic Cooperation and Development, the owner or operator of the facility must provide a copy of the tracking document bearing all required signatures to the notifier, to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, 401 M St., SW., Washington, DC 20460, and to competent authorities of all other concerned countries, as defined under 40 CFR §262.81. The original copy of the tracking document must be maintained at the facility for at least three years from the date of signature.

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§335.13. Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste.

(a) Unregistered generators who ship hazardous waste or Class 1 waste shall prepare a complete and correct Waste Shipment Summary (S1) from the manifests.

(b) Unregistered generators or out-of-state primary exporters who export hazardous waste from or through Texas to a foreign country, shall prepare a complete and correct Waste Shipment Summary (S1) from the manifests.

(c) Registered generators or out-of-state primary exporters who import hazardous or Class 1 waste from a foreign country through Texas to another state shall prepare a complete and correct Foreign Waste Shipment Summary (F1) from the manifests.

(d) The Waste Shipment Summary (S1) and the Foreign Waste Shipment Summary (F1) shall be prepared in a form provided or approved by the executive director and submitted to the executive director on or before the 25th of each month for shipments originating during the previous month. The unregistered generator or in-state/out-of-state primary exporter must keep a copy of each summary for a period of at least three years from the due date of the summary. These generators are required to prepare and submit a Waste Shipment Summary (S1) and/or Foreign Waste Shipment Summary (F1) only for those months in which shipments are actually made. Conditionally exempt small quantity generators shipping municipal hazardous waste are not subject to the requirements of this subsection.

(e) The following figure is a graphic representation illustrating generator, waste type, shipment type, and report method.

Generator Type	Waste Type	Shipment Type	Report Method
In-State Registered Generator	Texas Waste	Ship within Texas	Annual Waste Summary (G1)
		Ship out of Texas	Annual Waste Summary (G1)
In-State Unregistered Generator	Texas Waste	Ship within Texas	Waste Shipment Summary (S1)
		Ship out of Texas	Waste Shipment Summary (S1)
In-State Unregistered Primary Exporter/Importer (TX EPA#)	Foreign Waste (Import)	Ship through Texas	Foreign Waste Shipment Summary (F1)
		Ship into Texas	No Report Required
Out-of-State Primary Exporter/Importer (Other State EPA #)	Foreign Waste (Import)	Ship through Texas	Foreign Waste Shipment Summary (F1)
		Ship into Texas	No Report Required
	Other State's Haz. Waste Exported to Foreign Country	Ship through Texas	Waste Shipment Summary (S1)

(f) A registered generator is defined as an in-state generator who has complied with §335.6 of this title (relating to Notification Requirements), and is assigned a solid waste registration number.

(g) An unregistered generator is defined as an in-state generator who is not a conditionally exempt small quantity generator, as defined in §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators), that ships hazardous waste and/or Class 1 waste using a temporary solid waste registration number and a temporary Texas waste code number assigned by the executive director.

(h) A primary exporter/importer is defined as:

(1) an in-state generator who imports hazardous waste or Class 1 waste from a foreign country into or through Texas to another state and/or exports hazardous waste to a foreign country; or

(2) an out-of-state generator/importer of record who imports hazardous waste or Class 1 waste from a foreign country into or through Texas to another state and/or exports hazardous waste through Texas to a foreign country.

(i) The registered/unregistered generator or primary exporter shall retain a copy of each manifest required by §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste) for a minimum of three years from the date of shipment by the registered/unregistered generator or primary exporter.

(j) A registered/unregistered generator who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial transporter must contact the transporter and/or the owner or operator of the designated facility to determine the status of the hazardous waste or Class 1 waste.

(k) A registered/unregistered generator or primary exporter of hazardous waste subject to §335.76(c) of this title (relating to Additional Requirements Applicable to International Shipments) must submit an exception report to the executive director if he has not received a copy of the manifest with the handwritten signatures of the owner or operator of the designated facility within 45 days of the date that the waste was accepted by the initial transporter. The exception report must be retained by the registered/unregistered generator or primary exporter for at least three years from the date the waste was accepted by the initial transporter and must include:

(1) a legible copy of the manifest for which the generator does not have confirmation of delivery; and

(2) a copy of a letter signed by the generator or his authorized representative explaining the efforts taken to locate the hazardous waste or Class 1 waste and the results of those efforts.

(l) The periods of record retention required by this section are automatically extended during the course of any unresolved enforcement action regarding the regulated activity.

(m) The requirements of subsections (j) and (k) of this section do not apply to generators who generate hazardous waste or Class 1 waste in quantities less than 100 kilograms in a calendar month, or acute hazardous waste in quantities specified in §335.78 of this title.

(n) Primary exporters of hazardous waste as defined in 40 Code of Federal Regulations (CFR) §262.51 must submit an annual report in accordance with the requirements set out in the regulations contained in 40 CFR §262.56, as amended and adopted through April 12, 1996, at 61 FedReg 16290.

Adopted October 24, 2001

Effective November 15, 2001

§335.14. Recordkeeping Requirements Applicable to Transporters of Hazardous Waste or Class 1 Waste.

(a) A transporter of hazardous waste or Class 1 waste shall retain a copy of each manifest signed by the generator or, in the case of exports of hazardous waste, the primary exporter; the transporter; and the next designated transporter, or the owner or operator of the facility designated on the manifest for a minimum of at least three years from the date of initial shipment.

(b) For shipments delivered to the facility designated on the manifest by water (bulk shipment), each water (bulk shipment) transporter must retain a copy of a shipping paper containing all the information required by §335.11(e) of this title (relating to Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste) for a minimum of three years from the date of initial shipment.

(c) For shipments of hazardous waste or Class 1 waste by rail within the United States:

(1) the initial rail transporter must keep a copy of the manifest and shipping paper with all of the information required in §335.11(f)(2) of this title for a period of three years from the date the hazardous waste or Class 1 waste was accepted by the initial transporter; and

(2) the final rail transporter must keep a copy of the signed manifest (or the shipping paper if signed by the designated facility in lieu of the manifest) for a period of three years from the date the hazardous waste or Class 1 waste was accepted by the initial transporter.

(d) A transporter who transports waste out of the United States must retain a copy of the manifest indicating that the hazardous waste or waste left the United States for a minimum of three years from the date of initial shipment.

(e) The periods of record retention required by this section are automatically extended during the course of any unresolved enforcement action regarding the regulated activity.

Adopted October 24, 2001

Effective November 15, 2001

§335.15. Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities.

This section applies to owners and operators who receive hazardous or Class 1 waste from off-site sources or who have notified that they intend to receive hazardous or Class 1 waste from off-site sources.

(1) The owner or operator of the storage, processing, or disposal facility designated on the manifest shall retain a copy of each manifest or, in the case of shipments by rail or water (bulk shipment), a copy of each manifest and shipping paper, for a minimum of three years from the date of initial shipment by the generator or primary exporter where appropriate.

(2) Except as provided in paragraph (6) of this section or as provided in §335.24(h) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), the owner or operator shall prepare a complete and correct Monthly Waste Receipt Summary for all manifested and unmanifested hazardous or Class 1 waste shipments received. The Monthly Waste Receipt Summary shall be submitted electronically, using software provided by the executive director. Upon written request by the receiver, authorization may be given by the executive director to use paper forms or an alternative reporting method. The Monthly Waste Receipt Summary shall be submitted to the executive director on or before the 25th of each month for wastes or manifests received during the previous month. (The appropriate abbreviations for method of storage, processing, and disposal of waste

and for units of measure may be found on the form or accompanying instructions.) Any owner or operator of a storage, processing, or disposal facility required to comply with this subsection shall prepare and submit a Monthly Waste Receipt Summary each month even if no waste was received.

(3) The owner or operator shall submit a report on forms provided or approved by the executive director summarizing the types and volumes of any hazardous waste received without manifests, or, in the case of shipments by rail or water (bulk shipments), without shipping papers. This report shall be submitted within 15 days of receiving the waste, regardless of quantity, and shall include the following information:

- (A) the EPA identification number, name, and address of the facility;
- (B) the date the facility received the waste;
- (C) the EPA identification number, name, and address of the generator and the transporter, if available;
- (D) a description and the quantity of each hazardous waste the facility received which was not accompanied by a manifest;
- (E) the method of storage, processing, or disposal for each hazardous waste;
- (F) the certification signed by the owner or operator of the facility or his authorized representative; and
- (G) a brief explanation of why the waste was unaccompanied by a manifest, if known.

(4) The owner or operator shall retain a copy of each summary required by paragraphs (2) and (3) of this subsection for a minimum of three years from the date of each summary.

(5) The period of record retention required by this section is automatically extended during the course of any unresolved enforcement action regarding the regulated activity.

(6) An owner or operator reclaiming hazardous wastes received from conditionally exempt small quantity generators is subject to the requirements of this section requiring completion of a monthly waste receipt summary, from his copy of all manifests received during the month, unless he has requested in writing a modification in the reporting requirements. A modification relieving the owner or operator of having to report each manifested shipment on the monthly waste receipt summary may be granted at the discretion of the executive director on a case-by-case basis.

(7) Information which has already been submitted by permitted or interim status facilities under the requirements of this section need not be included in the reports required by 40 CFR §264.75 or §265.75 (relating to Biennial Reports); these biennial reports must be submitted to the executive director in letter format rather than by EPA form.

Adopted April 28, 1999

Effective May 20, 1999

§335.17. Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials.

(a) For the purposes of the definition of solid waste in §335.1 of this title (relating to Definitions) and §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials):

(1) a spent material is any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing;

(2) sludge has the same meaning used in Texas Health and Safety Code, §361.003;

(3) a by-product is a material that is not one of the primary products of a production process and is not solely or separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a co-product that is produced for the general public's use and is ordinarily used in the form in which it is produced by the process;

(4) a material is reclaimed if it is processed to recover a usable product, or if it is regenerated. Examples are recovery of lead values from spent batteries and regeneration of spent solvents;

(5) a material is used or reused if it is either:

(A) employed as an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or

(B) employed in a particular function or application as an effective substitute for a commercial product (for example, spent pickle liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment);

(6) scrap metal is bits and pieces of metal parts (e.g., bars, turnings, rods, sheets, wires) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled;

(7) a material is recycled if it is used, reused, or reclaimed;

(8) a material is accumulated speculatively if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that, during the calendar year (commencing on January 1), the amount of material that is recycled, or transferred to a

different site for recycling, equals at least 75% by weight or volume of the amount of that material accumulated at the beginning of the period. In calculating the percentage of turnover, the 75% requirement is to be applied to each material of the same type (e.g., slags from a single smelting process) that is recycled in the same way (i.e., from which the same material is recovered or that is used in the same way). Materials accumulating in units that would be exempt from regulation under 40 Code of Federal Regulations (CFR) §261.4(c) are not to be included in making the calculation. (Materials that are already defined as solid wastes also are not to be included in making the calculation.) Materials are no longer in this category once they are removed from accumulation for recycling, however.

(9) Excluded scrap metal is processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal.

(10) Processed scrap metal is scrap metal which has been manually or physically altered to either separate it into distinct materials to enhance economic value or to improve the handling of materials. Processed scrap metal includes, but is not limited to, scrap metal which has been baled, shredded, sheared, chopped, crushed, flattened, cut, melted, or separated by metal type (i.e., sorted), and, fines, drosses and related materials which have been agglomerated. (Note: shredded circuit boards being sent for recycling are not considered processed scrap metal. They are covered under the exclusion from the definition of solid waste for shredded circuit boards being recycled (40 CFR §261.4(a)(14)).

(11) Home scrap metal is scrap metal as generated by steel mills, foundries, and refineries such as turnings, cuttings, punchings, and borings.

(12) Prompt scrap metal is scrap metal as generated by the metal working/fabrication industries and includes such scrap metal as turnings, cuttings, punchings, and borings. Prompt scrap is also known as industrial or new scrap metal.

(b) Other portions of this chapter that relate to solid wastes that are recycled include §335.1 of this title, under the definition of Solid Waste, §335.6 of this title (relating to Notification Requirements), §335.18 of this title (relating to Variances from Classification as a Solid Waste), §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid

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Waste), §335.24 of this title, and Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Materials).

Adopted October 24, 2001

Effective November 15, 2001

§335.18. Variances from Classification as a Solid Waste.

(a) In accordance with the standards and criteria in §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste) and the procedures in §335.21 of this title (relating to Procedures for Variances from Classification as a Solid Waste or to be Classified as a Boiler), the executive director may determine on a case-by-case basis that the following recyclable materials and nonhazardous recyclable materials are not solid wastes:

(1) materials that are accumulated speculatively without sufficient amounts being recycled (as defined in §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials));

(2) materials that are reclaimed and then reused within the original production process in which they were generated; or

(3) materials that have been reclaimed but must be reclaimed further before the materials are completely recovered.

(b) Other portions of this chapter that relate to solid wastes that are recycled include §335.1 of this title (relating to Definitions), under the definition of "Solid Waste," §335.6 of this title (relating to Notification Requirements), §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste), §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), and Subchapter H (relating to Standards for the Management of Specific Wastes and Specific Types of Materials).

Adopted September 4, 1998

Effective October 19, 1998

§335.19. Standards and Criteria for Variances from Classification as a Solid Waste.

(a) The executive director may grant requests for a variance from classifying as a solid waste those materials that are accumulated speculatively without sufficient amounts being recycled if the applicant demonstrates that sufficient amounts of the material will be recycled or transferred for recycling in the following year. If a variance is granted, it is valid only for the following year, but can be renewed, on an annual basis, by filing a new application. The executive director's decision will be based on the following criteria:

(1) the manner in which the material is expected to be recycled, when the material is expected to be recycled, and whether this expected disposition is likely to occur (for example, because of past practice, market factors, the nature of the material, or contractual arrangements for recycling);

(2) the reason that the applicant has accumulated the material for one or more years without recycling 75% of the weight or volume accumulated at the beginning of the year;

(3) the quantity of material already accumulated and the quantity expected to be generated and accumulated before the material is recycled;

(4) the extent to which the material is handled to minimize loss;

(5) other relevant factors.

(b) The executive director may grant requests for a variance from classifying as a solid waste those materials that are reclaimed and then reused as feedstock within the original production process in which the materials were generated if the reclamation operation is an essential part of the production process. This determination will be based on the following criteria:

(1) how economically viable the production process would be if it were to use virgin materials, rather than reclaimed materials;

(2) the prevalence of the practice on an industry-wide basis;

(3) the extent to which the material is handled before reclamation to minimize loss;

(4) the time periods between generating the material and its reclamation, and between reclamation and return to the original primary production process;

(5) the location of the reclamation operation in relation to the production process;

(6) whether the reclaimed material is used for the purpose for which it was originally produced when it is returned to the original process, and whether it is returned to the process in substantially its original form;

(7) whether the person who generates the material also reclaims it;

(8) other relevant factors.

(c) The executive director may grant requests for a variance from classifying as a solid waste those materials that have been reclaimed but must be reclaimed further before recovery is completed if, after initial reclamation, the resulting material is commodity-like (even though it is not yet a commercial product, and has to be reclaimed further). This determination will be based on the following factors:

(1) the degree of processing the material has undergone and the degree of further processing that is required;

(2) the value of the material after it has been reclaimed;

- (3) the degree to which the reclaimed material is like an analogous raw material;
- (4) the extent to which an end market for the reclaimed material is guaranteed;
- (5) the extent to which the reclaimed material is handled to minimize loss;
- (6) other relevant factors.

(d) Other portions of this chapter that relate to solid wastes that are recycled include §335.1 of this title (relating to Definitions), under the definition of "Solid Waste," §335.6 of this title (relating to Notification Requirements), §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), §335.18 of this title (relating to Variances from Classification as a Solid Waste), §335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), and Subchapter H (relating to Standards for the Management of Specific Wastes and Specific Types of Materials).

Adopted September 4, 1998

Effective October 19, 1998

§335.20. Variance to be Classified as a Boiler.

In accordance with the standards and criteria in §335.1 of this title (relating to Definitions) (definition of boiler), and the procedures in §335.21 of this title (relating to Procedures for Variances from Classification as a Solid Waste or to be Classified as a Boiler), the executive director may determine on a case-by-case basis that certain enclosed devices using controlled flame combustion are boilers, even though they do not otherwise meet the definition of boiler contained in §335.1 of this title (relating to Definitions), after considering the following criteria:

- (1) the extent to which the unit has provisions for recovering and exporting thermal energy in the form of steam, heated fluids, or heated gases;
- (2) the extent to which the combustion chamber and energy recovery equipment are of integral design;
- (3) the efficiency of energy recovery, calculated in terms of the recovered energy compared with the thermal value of the fuel;
- (4) the extent to which exported energy is utilized;
- (5) the extent to which the device is in common and customary use as a boiler functioning primarily to produce steam, heated fluids, or heated gases; and
- (6) other factors, as appropriate.

Effective May 29, 1986

§335.21. Procedures for Variances from Classification as a Solid Waste or to be Classified as a Boiler.

The executive director will use the following procedures in evaluating applications for variances from classification as a solid waste or applications to classify particular enclosed flame combustion devices as boilers:

(1) The applicant must apply to the executive director for the variance. The application must address the relevant criteria contained in §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste) or §335.20 of this title (relating to Variance to be Classified as a Boiler).

(2) The executive director will evaluate the application and issue a draft notice tentatively granting or denying the application. Notification of this tentative decision will be provided by newspaper advertisement or radio broadcast in the locality where the recycler is located. The executive director will accept comment on the tentative decision for 30 days, and may also hold a public hearing upon request or at his discretion. The executive director will issue a final decision after receipt of comments and after the hearing (if any). Any person affected by a final decision of the executive director may file with the chief clerk a motion for reconsideration, subject to §50.39(b)-(f) of this title (relating to Motion for Reconsideration).

Adopted September 4, 1998

Effective October 19, 1998

§335.22. Additional Regulation of Certain Hazardous Waste Recycling Activities on a Case-By-Case Basis.

The commission may decide on a case-by-case basis that persons accumulating or storing the recyclable materials described in §335.24(b)(3) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) should be regulated under §335.24(d)-(f) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials). The basis for this decision is that the materials are being accumulated or stored in a manner that does not protect human health and the environment because the materials or their toxic constituents have not been adequately contained, or because the materials being accumulated or stored together are incompatible. The procedures for this decision are set forth in §335.23 of this title (relating to Procedures for Case-by-Case Regulation of Hazardous Waste Recycling Activities). In making this decision, the commission will consider the following factors:

- (1) the types of materials accumulated or stored and the amounts accumulated or stored;
- (2) the method of accumulation or storage;
- (3) the length of time the materials have been accumulated or stored before being reclaimed;

(4) whether any contaminants are being released into the environment, or are likely to be so released; and

(5) other relevant factors.

Adopted October 23, 1996

Effective November 20, 1996

§335.23. Procedures for Case-By-Case Regulation of Hazardous Waste Recycling Activities.

The commission will use the following procedures when determining whether to regulate hazardous waste recycling activities described in §335.24(b)(3) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) under the provisions of §335.24(d)-(f) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), rather than under the provisions governing Recyclable Materials Utilized for Precious Metal Recovery under Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Facilities).

(1) If a generator is accumulating the waste, the commission will issue a notice setting forth the factual basis for the decision and stating that the person must comply with the applicable requirements of Subchapters A-C of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General; Hazardous Waste Management General Provisions; and Standards Applicable to Generators of Hazardous Waste). The notice will become final within 30 days, unless the person served requests a public hearing to challenge the decision. Upon receiving such a request, the commission will hold a public hearing. The commission will provide notice of the hearing to the public and allow public participation at the hearing. The commission will issue a final order after the hearing stating whether or not compliance with Subchapters A-C of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General; Hazardous Waste Management General Provisions; and Standards Applicable to Generators of Hazardous Waste) is required. A person affected by a final decision or order of the commission may file a petition for judicial review within 30 days after the decision or order is final and appealable, in accordance with Chapter 80 of this title (relating to Contested Case Hearings) and the Texas Administrative Procedure Act, Texas Government Code Chapter 2001.

(2) if the person is accumulating the recyclable material at a storage facility, the notice will state that the person must obtain a permit in accordance with all applicable provisions of Chapter 305 of this title (relating to Consolidated Permits); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution Procedures); Chapter 50 of this title (relating to Action on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); and Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property). The owner or operator of the facility must apply for

a permit within no less than 60 days and no more than six months of notice, as specified in the notice. If the owner or operator of the facility wishes to challenge the commission's decision, he may do so in his permit application, in a public hearing held on the draft permit, or in comments filed on the draft permit or on the notice of intent to deny the permit. The proposal for decision accompanying the permit will include the reasons for the commission's determination. The question of whether the commission's decision was proper will remain open for consideration during the public comment period and in any subsequent hearing.

Adopted September 4, 1998

Effective October 19, 1998

§335.24. Requirements For Recyclable Materials and Nonhazardous Recyclable Materials.

(a) Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of subsections (d) - (f) of this section, except for the materials listed in subsections (b) and (c) of this section. Hazardous wastes that are recycled will be known as recyclable materials. Nonhazardous industrial wastes that are recycled will be known as nonhazardous recyclable materials. Nonhazardous recyclable materials are subject to the requirements of subsections (h) and (i) of this section.

(b) The following recyclable materials are not subject to the requirements of this section, except as provided in subsections (g) and (h) of this section, but are regulated under the applicable provisions of Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Facilities) and all applicable provisions in Chapter 305 of this title (relating to Consolidated Permits); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution Procedures); Chapter 50 of this title (relating to Action on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); and Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property).

(1) recyclable materials used in a manner constituting disposal;

(2) hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) or Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities);

(3) recyclable materials from which precious metals are reclaimed;

(4) spent lead-acid batteries that are being reclaimed.

(c) The following recyclable materials are not subject to regulation under Subchapters B-I or O of this chapter (relating to Hazardous Waste Management General Provisions; Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; Standards for the Management of Specific Wastes and Specific Types of Facilities; Prohibition on Open Dumps; and Land Disposal Restrictions); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution Procedures); Chapter 50 of this title (relating to Action on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property) or Chapter 305 of this title (relating to Consolidated Permits), except as provided in subsections (g) and (h) of this section:

(1) industrial ethyl alcohol that is reclaimed except that, unless provided otherwise in an international agreement as specified in the regulations contained in 40 Code of Federal Regulations (CFR) §262.58, which are in effect as of November 8, 1986:

(A) a person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in the regulations contained in 40 CFR §§262.53, 262.56(a)(1)-(4) and (6) and (b), and 262.57, which are in effect as of November 8, 1986, export such materials only upon such consent of the receiving country and in conformance with the EPA acknowledgment of consent as defined in the regulations contained in 40 CFR Part 262, Subpart E, which are in effect as of November 8, 1986, and provide a copy of the EPA acknowledgment of consent to the shipment to the transporter transporting the shipment for export;

(B) transporters transporting a shipment for export may not accept a shipment if he knows the shipment does not conform to the EPA acknowledgment of consent, must ensure that a copy of the EPA acknowledgment of consent accompanies the shipment and must ensure that it is delivered to the facility designated by the person initiating the shipment;

(2) scrap metal that is not already excluded under 40 CFR §261.4(a)(13);

(3) fuels produced from the refining of oil-bearing hazardous waste along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices (this exemption does not apply to fuels produced from oil recovered from oil-bearing hazardous waste, where such recovered oil is already excluded under 40 CFR §261.4(a)(12)); and

✓(4) the following hazardous waste fuels:

(A) Hazardous waste fuel produced from oil-bearing hazardous wastes from petroleum refining, production or transportation practices, or produced from oil reclaimed from such hazardous wastes where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under 40 CFR §279.11 and so long as no other hazardous wastes are used to produce the hazardous waste fuel;

✓(B) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under 40 CFR §279.11;

✓(C) Oil reclaimed from oil-bearing hazardous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under 40 CFR §279.11.

(d) Generators and transporters of recyclable materials are subject to the applicable requirements of Subchapter C of this chapter (relating to Standards Applicable to Generators of Hazardous Waste) and Subchapter D of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste), and the notification requirements of §335.6 of this title (relating to Notification Requirements), except as provided in subsections (a) - (c) of this section.

✓(e) Owners or operators of facilities that store recyclable materials before they are recycled are regulated under all applicable provisions of this chapter, and Chapter 305 of this title (relating to Consolidated Permits); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution Procedures); Chapter 50 of this title (relating to Action on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); and the notification requirements under §335.6 of this title, except as provided in subsections (a) - (c) of this section. The recycling process itself is exempt from regulation. ✓

(f) Owners or operators of facilities that recycle recyclable materials without storing them before they are recycled are subject to the following requirements, except as provided in subsections (a) - (c) of this section:

(1) notification requirements under §335.6 of this title;

(2) §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities).

(g) Recyclable materials (excluding those listed in subsections (b)(4), (c)(1) and (2) - (5) of this section) remain subject to the requirements of §§335.4, 335.6, and 335.9 - 335.15 of this title (relating to General Prohibitions; Notification Requirements; Recordkeeping and Annual Reporting Procedures Applicable to Generators; Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste; Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste; Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities; Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste; Recordkeeping Requirements Applicable to Transporters of Hazardous Waste or Class 1 Waste; and Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities), as applicable. Recyclable materials listed in subsections (b)(4) and (c)(2) of this section remain subject to the requirements of subsection (h) of this section.

(h) Industrial solid wastes that are nonhazardous recyclable materials and recyclable materials listed in subsection (b)(4) and subsection (c)(2) of this section remain subject to the requirements of §335.4 of this title. In addition, industrial solid wastes that are nonhazardous recyclable materials and recyclable materials listed in subsection (c)(2) of this section remain subject to the requirements of §335.6 of this title. Industrial solid wastes that are nonhazardous recyclable materials and recyclable materials listed in subsection (b)(4) and subsection (c)(2) of this section may also be subject to the requirements of §§335.10 - 335.15 of this title, as applicable, if the executive director determines that such requirements are necessary to protect human health and the environment. In making the determination, the executive director shall consider the following criteria:

(1) the waste's toxicity, corrosivity, flammability, ability to sensitize or irritate, or propensity for decomposition and creation of sudden pressure;

(2) the potential for the objectionable constituent to migrate from the waste into the environment if improperly managed;

~~(3) the persistence of any objectionable constituent or any objectionable degradation product in the waste;~~

(4) the potential for the objectionable constituent to degrade into nonharmful constituents;

(5) the degree to which the objectionable constituent bioaccumulates in ecosystems;

(6) the plausible types of improper management to which the waste could be subjected;

(7) the nature and severity of potential damage to the public health and environment;

(8) whether subjecting the waste to additional regulation will provide additional protection for human health and the environment;

(9) other relevant factors.

(i) Except as provided in Texas Health and Safety Code, §361.090, facilities managing recyclable materials that are required to obtain a permit under this section may also be permitted to manage nonhazardous recyclable materials at the same facility if the executive director determines that such regulation is necessary to protect human health and the environment. In making this determination, the executive director shall consider the following criteria:

(1) whether managing nonhazardous recyclable materials will create an additional risk of release of the hazardous recyclable materials into the environment;

(2) whether hazardous and nonhazardous wastes that are incompatible are stored and/or processed in the same or connected units;

(3) whether the management of recyclable materials and nonhazardous recyclable materials is segregated within the facility;

(4) the waste's toxicity, corrosivity, flammability, ability to sensitize or irritate, or propensity for decomposition and creation of sudden pressure;

(5) the potential for the objectionable constituent to migrate from the waste into the environment if improperly managed;

(6) the persistence of any objectionable constituent or any objectionable degradation product in the waste;

(7) the potential for the objectionable constituent to degrade into harmful constituents;

(8) the degree to which the objectionable constituent bioaccumulates in ecosystems;

(9) the plausible types of improper management to which the waste could be subjected;

(10) the nature and severity of potential damage to the public health and environment;

(11) whether subjecting the waste to additional regulation will provide additional protection for human health and the environment;

(12) other relevant factors.

(j) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of Subchapters A - I or O of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste in General; Hazardous Waste Management

General Provisions; Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; Standards for the Management of Specific Wastes and Specific Types of Facilities; Prohibition on Open Dumps; and Land Disposal Restrictions), but is regulated under Chapter 324 of this title (relating to Used Oil). Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is re-refined, reclaimed, burned for energy recovery, or reprocessed.

(k) Owners or operators of facilities subject to hazardous waste permitting requirements with hazardous waste management units that recycle hazardous wastes are subject to the requirements of 40 CFR Part 264 or Part 265, Subparts AA and BB, as adopted by reference under §335.152(a)(17) - (18) and §335.112(a)(19) - (20) of this title (relating to Standards).

(l) Hazardous waste that is exported to or imported from designated member countries of the Organization for Economic Cooperation and Development (OECD), as defined in 40 CFR §262.58(a)(1), for purpose of recovery, and any person who exports or imports such hazardous waste, is subject to the requirements of 40 CFR Part 262, Subpart H (both federal regulation references as amended and adopted through April 12, 1996 at 61 FedReg 16290), if the hazardous waste is subject to the federal manifesting requirements of 40 CFR Part 262, or subject to the universal waste management standards of 40 CFR Part 273, or subject to Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule).

(m) Other portions of this chapter that relate to solid wastes that are recycled include §335.1 of this title (relating to Definitions), under the definition of "Solid Waste," §335.6 of this title, §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), §335.18 of this title (relating to Variances from Classification as a Solid Waste), §335.19 of this title (relating to Standards and Criteria for Variances from Classification as a Solid Waste), and Subchapter H of this chapter.

Adopted October 24, 2001

Effective November 15, 2001

§335.25. Handling, Storing, Processing, Transporting, and Disposing of Poultry Carcasses.

(a) Acceptable methods for disposal of poultry carcasses include the following storage, processing, and disposal methods:

(1) placement in a landfill permitted by the commission to receive municipal or industrial solid waste;

(2) composting, as defined in §332.2 of this title (relating to Definitions), and as further described in §332.23 of this title (relating to Operational Requirements);

(3) cremation or incineration;

- (4) extrusion;
- (5) rendering;
- (6) cooking for swine food; and
- (7) any other method the commission determines to be appropriate.

(b) Prior to disposition by any method listed in subsection (a) of this section, poultry facilities may:

(1) store poultry carcasses on site for no more than 72 hours provided that storage is in a varmint-proof receptacle to prevent odor, leakage, or spillage, but

(2) shall freeze, or refrigerate at a temperature of 40 degrees Fahrenheit or less, any poultry carcasses which require on-site storage for more than 72 hours.

(c) Poultry carcasses may not be disposed of by burial on-site except in the event of a major die-off that exceeds the capacity of a poultry facility to store and process poultry carcasses by the normal means used by the facility. A mortality rate of 0.3% or more per day of the facility's total poultry inventory shall be deemed a major die-off for the purposes of this section. This subsection supersedes any provisions of a permit or other authorization issued by the commission or its predecessor agencies which may have authorized on-site burial of poultry carcasses. This section does not authorize violation of any applicable regulations or laws.

(d) Transportation of poultry carcasses to an off-site location for final disposition shall be in accordance with applicable local, state or federal regulations or laws.

Adopted August 11, 1999

Effective September 5, 1999

§335.28. Adoption of Memoranda of Understanding by Reference.

(a) The memorandum of understanding (effective July 14, 1987) between the attorney general of Texas and the Texas Water Commission, which concerns public participation in the state hazardous waste enforcement process, is adopted by reference.

(b) The memorandum of understanding between the Texas Department of Health and the Texas Natural Resource Conservation Commission, which concerns radiation control functions and mutual cooperation, is adopted by reference under §7.118 of this title (relating to Memorandum of Understanding between the Texas Department of Health and the Texas Natural Resource Conservation Commission Regarding Radiation Control Functions).

(c) Copies of these documents are available upon request from the Texas Natural Resource Conservation Commission, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087, (512) 239-3300.

Adopted October 24, 2001

Effective November 15, 2001

§335.29. Adoption of Appendices by Reference.

The following appendices contained in 40 Code of Federal Regulations Part 261 are adopted by reference as amended and adopted through April 1, 1987, and as further amended as indicated in each paragraph:

- (1) Appendix I - Representative Sampling Methods;
- (2) Appendix II - Method 1311 Toxicity Characteristic Leaching Procedure (TCLP) (as amended through August 31, 1993, (58 FR 46040));
- (3) Appendix III--Chemical Analysis Test Methods (as amended through August 31, 1993, (58 FR 46040));
- (4) Appendix VII - Basis for Listing Hazardous Waste (as amended through August 6, 1998, (63 FR 42110));
- (5) Appendix VIII - Hazardous Constituents (as amended through May 4, 1998, (63 FR 24596)); and
- (6) Appendix IX - Wastes Excluded Under §260.20 and §260.22 (as amended through October 19, 1999, (64 FR 56256)).

Adopted October 24, 2001

Effective November 15, 2001

§335.30. Appendix I.

The following appendix will be used for the purposes of Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste in General).

Table 1
Types of Containers

DM	=	Metal drums, barrels, kegs
DW	=	Wooden drums, barrels, kegs
DF	=	Fiberboard or plastic drums, barrels, kegs
TP	=	Tanks portable
TT	=	Cargo tanks (tank trucks)
TC	=	Tank cars
DT	=	Dump truck
CY	=	Cylinders
CM	=	Metal boxes, cartons, cases (including roll-offs)
CW	=	Wooden boxes, cartons, cases
CF	=	Fiber or plastic boxes, cartons, cases
BA	=	Burlap, cloth, paper or plastic bag

Adopted October 23, 1996

Effective November 20, 1996

§335.31. Incorporation of References.

When used in Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste), the references contained in 40 Code of Federal Regulations (CFR) §260.11 are incorporated by reference as amended and adopted in the CFR through May 14, 1999 (64 FR 26315).

Adopted October 24, 2001

Effective November 15, 2001

SUBCHAPTER B: HAZARDOUS WASTE MANAGEMENT
GENERAL PROVISIONS
§§335.41, 335.43 - 335.47
Effective November 15, 2001

✓ §335.41. Purpose, Scope and Applicability.

(a) The purpose of this chapter is to implement a state hazardous waste program which controls from point of generation to ultimate disposal those wastes which have been identified by the administrator of the EPA in 40 Code of Federal Regulations (CFR) Part 261.

(b) Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) and Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste, Storage, Processing, or Disposal Facilities) and §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities) and §335.15 of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities) do not apply to an owner or operator of a totally enclosed treatment facility, as defined in §335.1 of this title (relating to Definitions).

(c) Except as provided in §335.47 of this title (relating to Special Requirements for Persons Eligible for a Federal Permit by Rule), Subchapter E of this chapter and Subchapter F of this chapter do not apply to the owner or operator of a publicly-owned treatment works (POTW) which processes, stores, or disposes of hazardous waste.

✓ (d) Subchapter E of this chapter and Subchapter F of this chapter do not apply to:

(1) the owner or operator of an elementary neutralization unit or a wastewater treatment unit as defined in §335.1 of this title, provided that if the owner or operator is diluting hazardous ignitable (D001) wastes (other than the D001 High TOC Subcategory defined in 40 CFR §268.40, Table Treatment Standards for Hazardous Wastes), or reactive (D003) waste, to remove the characteristic before land disposal, the owner/operator must comply with the requirements set out in 40 CFR §264.17(b);

✓ (2) persons engaged in processing or containment activities during immediate response to a discharge of a hazardous waste; an imminent and substantial threat of discharge of hazardous waste; a discharge of a material which, when discharged, becomes a hazardous waste; or an immediate threat to human health, public safety, property, or the environment, from the known or suspected presence of military munitions, other explosive material, or an explosive device, as determined by an explosive or munitions emergency response specialist as defined in §335.1 of this title, except that:

(A) an owner or operator of a facility otherwise regulated under Subchapter E of

this chapter must comply with all applicable requirements of §335.112(a)(2) and (3) of this title (relating to Standards) and §335.113 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator);

(B) an owner or operator of a facility otherwise regulated under Subchapter F of this chapter must comply with all applicable requirements of §335.152(a)(2) and (3) of this title (relating to Standards) and §335.153 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator);

(C) any person who continues or initiates hazardous waste processing or containment activities after the immediate response is over is subject to all applicable requirements of Subchapter E of this chapter, Subchapter F of this chapter and Chapter 305 of this title (relating to Consolidated Permits); and

(D) in the case of an explosives or munitions emergency response, if a federal, state, tribal, or local official acting within the scope of his or her official responsibilities, or an explosives or emergency response specialist, determines that immediate removal of the material is necessary to protect human health or the environment, that official or specialist may authorize the removal of the material or waste by transporters who do not have EPA identification numbers and without the preparation of a manifest. In the case of emergencies involving military munitions, the responding military emergency response specialist's organizational unit must retain records for three years identifying the dates of the response, the responsible persons responding, the type and description of material addressed, and its disposition;

(3) persons adding absorbent material to waste in a container, as defined in §335.1 of this title and persons adding waste to absorbent material in a container, provided that these actions occur at the time that waste is first placed in the container, and that in the case of permitted facilities, 40 CFR §§264.17(b), 264.171, and 264.172 are complied with, and for all other facilities, 40 CFR §§265.17(b), 265.171, and 265.172 are complied with.

(4) A farmer disposing of waste pesticides from his own use in compliance with §335.77 of this title (relating to Farmers).

(e) Subchapter E of this chapter does not apply to:

(1) a person who stores, processes or disposes of hazardous waste on-site and meets the requirements of §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators); or

(2) the owner or operator of a solid waste facility who stores, processes, or disposes of hazardous waste received from a conditionally exempt small quantity generator.

(f) The following requirements apply to residues of hazardous waste in containers.

(1) Subchapters B - F and O of this chapter (relating to Hazardous Waste Management General Provisions; Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Permitting Standards for Owners and Operators of Hazardous Waste, Storage, Processing, or Disposal Facilities; and Land Disposal Restrictions) do not apply to any hazardous waste remaining in either an empty container or an inner liner removed from an empty container, as defined in paragraph (2) of this subsection. This exemption does not apply to any hazardous waste in either a container that is not empty or an inner liner removed from a container that is not empty.

(2) For purposes of determining whether a container is empty under this subsection, the following provisions apply:

(A) a container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in 40 CFR §§261.31, 261.32, or 261.33(e) is empty if:

(i) all wastes have been removed that can be using the practices commonly employed to remove materials from that type of container, e.g. pouring, pumping, and aspirating; and

(ii) no more than 2.5 centimeters (one inch) of residue remains on the bottom of the container or inner liner; or

(iii) no more than 3.0% by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or no more than 0.3% by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.

(B) a container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmosphere;

(C) a container or an inner liner removed from a container that has held an acute hazardous waste listed in 40 CFR §§261.31, 261.32, or 261.33(e) is empty if:

(i) the container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;

(ii) the container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or

(iii) in the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.

(g) Subchapters B - F and O of this chapter do not apply to hazardous waste which is managed as a recyclable material described in §§335.24(b) and (c) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), except to the extent that requirements of these subchapters are referred to in Subchapter H of this chapter (relating to Standards for the Management of Specific Wastes and Specific Types of Facilities) and Chapter 324 of this title (relating to Used Oil).

(h) Subchapter E of this chapter and Subchapter F of this chapter apply to owners or operators of all facilities which treat, store, or dispose of hazardous waste referred to in Subchapter O of this chapter.

(i) Except as provided in §335.47 of this title, Subchapter F of this chapter does not apply to persons disposing of hazardous waste by means of underground injection. However, Subchapter F of this chapter does apply to the aboveground storage or processing of hazardous waste before it is injected underground.

(j) Except as specified in Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule), Subchapters B-F and O of this chapter and Chapter 305 of this title do not apply to universal wastes, universal waste handlers, or universal waste transporters as defined in §335.261 of this title (relating to Universal Waste Rule). Universal wastes are not fully regulated hazardous wastes, but are subject to regulation under Subchapter H, Division 5 of this chapter.

Adopted October 24, 2001

Effective November 15, 2001

§335.43. Permit Required.

(a) Except as provided in §335.2 of this title (relating to Permit Required), no person shall store, process, or dispose of hazardous waste without first having obtained a permit from the Texas Natural Resource Conservation Commission.

(b) Upon receipt of federal Hazardous and Solid Waste Act (HSWA) authorization for the Texas Natural Resource Conservation Commission's Hazardous Waste Program, the commission shall be authorized to enforce the HSWA provisions that the EPA imposed in hazardous waste permits that were issued before the HSWA authorization was granted.

Adopted October 24, 2001

Effective November 15, 2001

§335.44. Application for Existing On-Site Facilities.

(a) In order to satisfy the application deadline specified in §335.2(c) of this title (relating to Permit Required), an application must be submitted prior to that date which contains information defining the following:

- (1) owner(s) and operator(s) of the facility;
- (2) description of the site;
- (3) description of the facility and all facility components;
- (4) identification of wastes generated, stored, processed, or disposed, together with quantities and sources; and
- (5) methods and types of operations used in the storage, processing, or disposal of wastes.

(b) In addition to the information required in subsection (a) of this section, a complete application, required prior to action on an application by the commission, must include the following:

- (1) engineering plans and specifications and other documentation necessary to demonstrate that all components of the facility design, construction, and operation conform to standards established by the commission; and
- (2) information describing actions necessary to bring existing facilities into compliance with commission standards and a schedule for completion of such actions.

(c) An application form can be obtained from the executive director for each geographical location for which the storage, processing, or disposal of hazardous waste is proposed.

(d) The application shall be signed by the applicant or by a duly authorized agent, employee, officer, or representative of the applicant and shall be verified before a notary public.

Adopted October 24, 2001

Effective November 15, 2001

§335.45. Effect on Existing Facilities.

(a) Effect on permitted off-site facilities. Subchapters B - E of this chapter (relating to Hazardous Waste Management General Provisions; Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; and Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), provide minimum requirements applicable to all persons generating, transporting, storing, processing, and disposing of

hazardous waste. All persons holding permits or any other authorizations from the commission or its predecessor agencies, which relate to hazardous waste, shall meet the requirements of Subchapter E of this chapter until final administrative disposition of their permit application pursuant to standards prescribed by Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) is made. However, where the permit or authorization specifies additional or more stringent requirements, the provisions of the permit or authorization shall be complied with.

(b) Effect on off-site facilities without a permit to re-use, recycle, or reclaim hazardous waste, or to burn hazardous waste in boilers or industrial furnaces. Any person who has commenced the off-site storage, processing, or disposal of hazardous wastes, or activities that are listed, identified or described by the administrator of the United States Environmental Protection Agency in 40 Code of Federal Regulations Part 261, on or before the effective date of statutory or regulatory amendments under the Resource Conservation and Recovery Act of 1976, as amended, 42 United States Code §§6901 et seq., concerning the re-use, recycling, or reclamation of hazardous waste, or relating to the burning of hazardous waste in boilers or industrial furnaces, that render such wastes or activities subject to the requirements to have a hazardous waste permit, shall file an application with the commission on or before the effective date of such amendments, which includes the applicable information required by §335.44 of this title (relating to Application for Existing On-site Facilities). Any person who has commenced off-site storage, processing, or disposal of hazardous waste on or before the effective date of such amendments, who has filed a hazardous waste permit application with the commission on or before the effective date of such amendments in accordance with the rules and regulations of the commission, and who complies with requirements in this chapter applicable to such activities, may continue the off-site storage, processing, or disposal of the newly listed or identified wastes or waste activities until such time as the Texas Natural Resource Conservation Commission approves or denies the application. In cases where the aforementioned federal statutory or regulatory amendments become effective prior to the effective date of state statutory or regulatory amendments under Texas Health and Safety Code, Chapter 361, submittal to the executive director of a copy of the properly filed EPA permit application within 30 days of the effective date of the applicable state statutory or regulatory requirements shall constitute compliance with this subsection with regard to application filing requirements. Facilities that have received a permit for the re-use, recycling, or reclamation of hazardous waste in accordance with Subchapter F of this chapter are not required to comply with this subsection and may operate pursuant to their existing permit. Such permits, however, are subject to amendment under §305.62 of this title (relating to Amendment) or to modification under

§305.69 of this title (relating to Solid Waste Permit Modification at the Request of the Permittee) to reflect new regulatory requirements.

Adopted October 24, 2001

Effective November 15, 2001

§335.46. Sharing of Information.

Any information obtained or used by the commission in the administration of a hazardous waste program authorized under the Resource Conservation and Recovery Act of 1976, §3006 and 40 Code of Federal Regulations (CFR) Part 271 shall be available to the Environmental Protection Agency upon request without restriction. If the information has been submitted to the commission under a claim of confidentiality, the commission shall submit that claim to the Environmental Protection Agency when providing information under this section. Any information obtained from the commission and subject to a claim of confidentiality will be treated by the Environmental Protection Agency in accordance with 40 CFR Part 2. If the Environmental Protection Agency obtains information that is not claimed to be confidential, the Environmental Protection Agency may make that information available to the public without further notice.

Adopted October 24, 2001

Effective November 15, 2001

§335.47. Special Requirements for Persons Eligible for a Federal Permit by Rule.

(a) The following persons are eligible for a permit by rule under 40 Code of Federal Regulations (CFR) §270.60:

(1) the owner or operator of a barge or other vessel which accepts hazardous waste for ocean disposal;

(2) the owner or operator of a publicly owned treatment works (POTW) which accepts hazardous waste for treatment; and

(3) the owner or operator of an injection well used to dispose of hazardous waste.

(b) To be eligible for a permit by rule, such person shall comply with the requirements of 40 CFR §270.60 and the following rules:

(1) 40 CFR §264.11 (EPA identification number);

(2) 40 CFR §264.73(a) and (b)(1) (operating record);

(3) 40 CFR §264.75 (biennial report);

(4) §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities); and

(5) §335.15 of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities).

(c) In addition to the requirements stated in subsection (b) of this section, the owner or operator of an injection well used to dispose of hazardous waste shall:

(1) comply with the applicable personnel training requirements of 40 CFR §264.16;

(2) when abandonment is completed, submit to the executive director certification by the owner or operator and certification by an independent registered professional engineer that the facility has been closed in accordance with the specifications in §331.46 of this title (relating to Plugging and Abandonment Standards); and

(3) for underground injection control permits issued after November 8, 1984, comply with §335.167 of this title (relating to Corrective Action for Solid Waste Management Units). Where the underground injection well is the only unit at a facility which requires a permit, comply with 40 CFR §270.14(d) (concerning information requirements for solid waste management units). Persons who dispose of hazardous waste by means of underground injection must obtain a permit under the Texas Water Code, Chapter 27.

(d) In addition to the requirements stated in subsection (b) of this section, the owner or operator of a POTW which accepts hazardous waste for treatment shall:

(1) meet all federal, state, and local pretreatment requirements which would be applicable to the waste if it were being discharged into the POTW through a sewer, pipe, or similar conveyance; and

(2) for National Pollutant Discharge Elimination System permits issued after November 8, 1984, comply with §335.167 of this title.

Adopted October 24, 2001

Effective November 15, 2001

**SUBCHAPTER C: STANDARDS APPLICABLE TO
GENERATORS OF HAZARDOUS WASTE**

§§335.61 - 335.63, 335.65 - 335.71, 335.73 - 335.78
Effective November 15, 2001

§335.61. Purpose, Scope and Applicability.

(a) Except as provided in subsection (b) of this section, this subchapter establishes standards for generators of hazardous waste. These standards are in addition to any applicable provisions contained in Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General).

(b) The provisions of this subchapter with which a generator who stores, processes or disposes of hazardous waste on-site must comply are §335.62 of this title (relating to Hazardous Waste Determination), §335.63 of this title (relating to EPA Identification Numbers), §335.70 of this title (relating to Recordkeeping), §335.73 of this title (relating to Additional Reporting), and, if applicable, §335.77 of this title (relating to Farmers), and §335.69 of this title (relating to Accumulation Time).

(c) Any person who imports hazardous waste into the state from a foreign country shall comply with standards applicable to generators.

(d) An owner or operator who initiates a shipment of hazardous waste from a processing, storage or disposal facility must comply with the generator standards contained in §335.10 of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste) and §335.13 of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste), and this subchapter. The provisions of §335.69 of this title (relating to Accumulation Time) are applicable to on-site accumulation of hazardous wastes by generators. Therefore, the provisions of §335.69 of this title only apply to owners or operators who are shipping hazardous waste which they generate at that facility.

(e) A farmer who generates waste pesticides which are hazardous waste and who complies with §335.77 of this title is not required to comply with this chapter with respect to those pesticides.

(f) A generator who treats, stores, or disposes of hazardous waste on-site must comply with the applicable standards and permit requirements set forth in Subchapters E, F, H, and O of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste and with Chapter 305 of this title (relating to Consolidated Permits)).

(g) Section 335.78(c) and (d) of this title (relating to Special Requirements for Hazardous Waste Generated By Conditionally Exempt Small Quantity Generators) must be used to determine the

applicability of provisions of this subchapter that are dependent on calculations of the quantity of hazardous waste generated per month.

(h) The requirements of this subchapter do not apply to persons responding to an explosives or munitions emergency in accordance with §335.41(d)(2) of this title (relating to Purpose, Scope and Applicability).

Adopted October 24, 2001

Effective November 15, 2001

§335.62. Hazardous Waste Determination and Waste Classification.

A person who generates a solid waste must determine if that waste is hazardous pursuant to §335.504 of this title (relating to Hazardous Waste Determination) and must classify any nonhazardous waste under the provisions of Subchapter R of this chapter (relating to Waste Classification). If the waste is determined to be hazardous, the generator must refer to this chapter and to 40 Code of Federal Regulations Parts 261, 264, 265, 266, 268, and 273 for any possible applicable exclusions or restrictions pertaining to management of the specific waste.

Adopted September 4, 1998

Effective October 19, 1998

§335.63. EPA Identification Numbers.

(a) A generator must not store, process, dispose of, transport, or offer for transportation, hazardous waste without having received an Environmental Protection Agency (EPA) identification number.

(b) A generator must not offer hazardous waste to transporters or to storage, processing or disposal facilities that have not received an EPA identification number.

§335.65. Packaging.

Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must package the waste in accordance with the applicable Department of Transportation regulations on packaging under 49 Code of Federal Regulations Parts 173, 178 and 179.

§335.66. Labeling.

Before transporting or offering hazardous waste for transportation off-site, a generator must label each package in accordance with applicable Department of Transportation regulations on hazardous materials under 49 Code of Federal Regulations Part 172.

§335.67. Marking.

(a) Before transporting or offering hazardous waste for transportation off-site, a generator must mark each package of hazardous waste in accordance with the applicable Department of Transportation regulations on hazardous materials under 49 Code of Federal Regulations (CFR) Part 172.

(b) Before transporting or offering hazardous waste for transportation off-site, a generator must mark each container of 110 gallons or less used in such transportation with the following words and information displayed in accordance with the requirements of 49 CFR §172.304: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the EPA.

Adopted October 24, 2001

Effective November 15, 2001

§335.68. Placarding.

Before transporting or offering hazardous waste for transportation off-site, a generator must placard or offer the initial transporter the appropriate placards according to Department of Transportation regulations for hazardous materials under 49 Code of Federal Regulations Part 172, Subpart F.

Effective May 28, 1986

§335.69. Accumulation Time.

(a) Generators that comply with the requirements of paragraph (1) of this subsection are exempt from all requirements adopted by reference in §335.112(a)(6) and (7) of this title (relating to Standards), except 40 Code of Federal Regulations (CFR) §265.111 and §265.114. Except as provided in subsections (f) - (k) of this section, a generator may accumulate hazardous waste on-site for 90 days without a permit or interim status provided that:

(1) the waste is placed:

(A) in containers and the generator complies with the applicable requirements of 40 CFR Part 265, Subparts I, AA, and BB, and CC, as adopted by reference under §335.112(a) of this title; and/or

(B) in tanks and the generator complies with the applicable requirements of 40 CFR Part 265, Subparts J, AA, BB, and CC, except 40 CFR §265.197(c) and §265.200, as adopted by reference under §335.112(a) of this title; and/or

(C) on drip pads and the generator complies with §335.112(a)(18) of this title and maintains the following records at the facility: a description of procedures that will be followed to

ensure that all wastes are removed from the drip pad and associated collection system at least once every 90 days; and documentation of each waste removal, including the quantity of waste removed from the drip pad and the sump or collection system and the date and time of removal; and/or

(D) the waste is placed in containment buildings and the generator complies with 40 CFR Part 265, Subpart DD, as adopted by reference under §335.112(a) of this title and has placed its professional engineer certification that the building complies with the design standards specified in 40 CFR §265.1101 in the facility's operating record prior to operation of the unit. The owner or operator shall maintain the following records at the facility:

(i) a written description of procedures to ensure that each waste volume remains in the unit for no more than 90 days, a written description of the waste generation and management practices for the facility showing that they are consistent with respecting the 90-day limit, and documentation that the procedures are complied with; or

(ii) documentation that the unit is emptied at least once every 90 days.

(2) the date upon which each period of accumulation begins is clearly marked and visible for inspection on each container; and

(3) while being accumulated on-site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste"; and

(4) the generator complies with the following:

(A) the requirements for owners or operators in 40 CFR Part 265, Subparts C and D and with 40 CFR §265.16, as adopted by reference in §335.112(a) of this title;

(B) 40 CFR §268.7(a)(5), as adopted by reference under §335.431(c) of this title (relating to Purpose, Scope, and Applicability); and

(C) §335.113 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator).

(b) A generator who accumulates hazardous waste for more than 90 days is an operator of a hazardous waste storage facility and is subject to the requirements of this chapter and Chapter 305 of this title (relating to Consolidated Permits) applicable to such owners and operators, unless he has been granted an extension to the 90-day period. Such extension may be granted by the executive director if hazardous wastes must remain on-site for longer than 90 days due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days may be granted at the discretion of the executive director on a case-by-case basis.

(c) Persons exempted under this provision, who generate hazardous waste, are still subject to the requirements in Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General) applicable to generators of Class 1 waste.

(d) A generator, other than a conditionally exempt small quantity generator regulated under §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators), may accumulate as much as 55 gallons of hazardous waste or one quart of acutely hazardous waste listed in 40 CFR §261.33(e) in containers at or near any point of generation where wastes initially accumulate, which is under the control of the operator of the process generating the waste, without a permit or interim status and without complying with subsection (a) of this section provided he:

(1) complies with 40 CFR §§265.171, 265.172 and 265.173(a), as adopted by reference under §335.112(a) of this title (relating to Standards); and

(2) marks his containers either with the words "Hazardous Waste" or with other words that identify the contents of the containers.

(e) A generator who accumulates either hazardous waste or acutely hazardous waste listed in 40 CFR §261.33(e) in excess of the amounts listed in subsection (d) of this section at or near any point of generation must, with respect to that amount of excess waste, comply within three days with subsection (a) of this section or other applicable provisions of this chapter. During the three-day period, the generator must continue to comply with subsection (d) of this section. The generator must mark the container holding the excess accumulation of hazardous waste with the date the excess amount began accumulating.

(f) A generator who generates greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month may accumulate hazardous waste on-site for 180 days or less without a permit or without having interim status provided that:

(1) the quantity of waste accumulated on-site never exceeds 6,000 kilograms;

(2) the generator complies with the requirements of 40 CFR Part 265, Subpart I, as adopted by reference under §335.112(a) of this title, except 40 CFR §265.176 and §265.178;

(3) the generator complies with the requirements of 40 CFR §265.201, as adopted by reference under §335.112(a) of this title;

(4) the generator complies with the requirements of:

(A) subsections (a)(2) and (3) of this section;

(B) 40 CFR Part 265, Subpart C, as adopted by reference under §335.112(a) of this title; and

(C) 40 CFR §268.7(a)(5), as adopted by reference under §335.431(c) of this title; and

(5) the generator complies with the following requirements:

(A) At all times there must be at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures specified in subparagraph (D) of this paragraph. This employee is the emergency coordinator.

(B) The generator must post the following information next to telephones that may be used to summon emergency assistance:

- (i) the name and telephone number of the emergency coordinator;
- (ii) location of fire extinguishers and spill control material, and, if present, fire alarm; and
- (iii) the telephone number of the fire department, unless the facility has a direct alarm.

(C) The generator must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies;

(D) The emergency coordinator or his designee must respond to any emergencies that arise. The applicable responses are as follows:

(i) In the event of a fire, call the fire department or attempt to extinguish it using a fire extinguisher;

(ii) In the event of a spill, contain the flow of hazardous waste to the extent possible, and as soon as is practicable, clean up the hazardous waste and any contaminated materials or soil;

(iii) In the event of a fire, explosion, or other release which could threaten human health outside the facility or when the generator has knowledge that a spill has reached surface water, the generator must immediately notify the National Response Center (using their 24-hour toll free number (800) 424-8802) and the commission according to the procedures set out in the State of

Texas oil and hazardous substances spill contingency plan. The reports must include the following information:

- (I) the name, address, and United States Environmental Protection Agency (EPA) Identification Number of the generator;
- (II) date, time, and type of incident (e.g., spill or fire);
- (III) quantity and type of hazardous waste involved in the incident;
- (IV) extent of injuries, if any; and
- (V) estimated quantity and disposition of recovered materials, if any.

(g) A generator who generates greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month and who must transport his waste, or offer his waste for transportation, over a distance of 200 miles or more for off-site processing, storage or disposal may accumulate hazardous waste on-site for 270 days or less without a permit or without having interim status, provided that he complies with the requirements of subsection (f) of this section.

(h) A generator who generates greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month and who accumulates hazardous waste in quantities exceeding 6,000 kg or accumulates hazardous waste for more than 180 days (or for more than 270 days if he must transport his waste, or offer his waste for transportation, over a distance of 200 miles or more) is an operator of a storage facility and is subject to the requirements of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste), and Subchapters E and F of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; and Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) and the permit requirements of Chapter 305 of this title (relating to Consolidated Permits), unless he has been granted an extension to the 180-day (or 270-day, if applicable) period. Such extension may be granted by the executive director if hazardous wastes must remain on-site for longer than 180 days (or 270 days, if applicable) due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days may be granted at the discretion of the executive director on a case-by-case basis.

(i) A generator who generates or collects hazardous waste for the purpose of treatability studies is not subject to this section.

✓ (j) A generator of 1,000 kilograms or greater of hazardous waste per calendar month who also generates wastewater treatment sludges from electroplating operations that meet the listing description

for EPA hazardous waste number F006, may accumulate F006 waste on-site for more than 90 days, but not more than 180 days without a permit or without having interim status provided that:

(1) the generator has implemented pollution prevention practices that reduce the amount of any hazardous substances, pollutants or contaminants entering the F006 waste or otherwise released to the environment prior to its recycling;

(2) the F006 waste is legitimately recycled through metals recovery;

(3) no more than 20,000 kilograms of F006 waste is accumulated on-site at any one time; and

(4) the F006 waste is managed in accordance with the following:

(A) the F006 waste is placed:

(i) in containers and the generator complies with the applicable requirements of 40 CFR Part 265, Subparts I, AA, and BB, as adopted by reference under §335.112(a) of this title, and 40 CFR Part 265, Subpart CC; and/or

(ii) in tanks and the generator complies with the applicable requirements of 40 CFR Part 265, Subparts J, AA, BB, as adopted by reference under §335.112(a) of this title, and 40 CFR Part 265, Subpart CC, except 40 CFR §265.197(c) and §265.200; and/or

(iii) in containment buildings and the generator complies with 40 CFR Part 265, Subpart DD, as adopted by reference under §335.112(a) of this title, and has placed its professional engineer certification that the building complies with the design standards specified in 40 CFR §265.1101 in the facility's operating record prior to operation of the unit. The owner or operator shall maintain the following records at the facility:

(I) a written description of procedures to ensure that the F006 waste remains in the unit for no more than 180 days, a written description of the waste generation and management practices for the facility showing that they are consistent with the 180-day limit, and documentation that the generator is complying with the procedures; or

(II) documentation that the unit is emptied at least once every 180 days;

(B) the generator complies with 40 CFR §265.111 and §265.114, as adopted by reference under §335.112(a)(6) of this title;

(C) the date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;

(D) while being accumulated on-site, each container and tank is labeled or marked clearly with the words "Hazardous Waste"; and

(E) the generator complies with the following:

(i) the requirements for owners or operators in 40 CFR Part 265, Subparts C and D, and 40 CFR §265.16, as adopted by reference under §335.112(a) of this title ;

(ii) 40 CFR §268.7(a)(5), as adopted by reference under §335.431(c) of this title; and

(iii) §335.113 of this title.

✓(k) A generator of 1,000 kilograms or greater of hazardous waste per calendar month who also generates wastewater treatment sludges from electroplating operations that meet the listing description for EPA hazardous waste number F006, and who must transport this waste, or offer this waste for transportation, over a distance of 200 miles or more for off-site metals recovery, may accumulate F006 waste on-site for more than 90 days, but not more than 270 days without a permit or without having interim status if the generator complies with the requirements of subsection (j)(1) - (4) of this section.

✓(l) A generator accumulating F006 waste in accordance with subsection (j) or (k) of this section who accumulates F006 waste on-site for more than 180 days (or for more than 270 days if the generator must transport this waste, or offer this waste for transportation, over a distance of 200 miles or more), or who accumulates more than 20,000 kilograms of F006 waste on-site is an operator of a hazardous waste storage facility and is subject to the requirements of this chapter and Chapter 305 of this title applicable to such owners and operators, unless the generator has been granted an extension to the 180-day (or 270-day if applicable) period or an exception to the 20,000 kilogram accumulation limit. Such extensions and exceptions may be granted by the executive director if F006 waste must remain on-site for longer than 180 days (or 270 days if applicable) or if more than 20,000 kilograms of F006 waste must remain on-site due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days or an exception to the accumulation limit may be granted at the discretion of the executive director on a case-by-case basis.

Adopted October 24, 2001

Effective November 15, 2001

§335.70. Recordkeeping.

(a) A generator of hazardous waste must keep records of any test results, waste analyses, or other determinations made in accordance with §335.62 of this title (relating to Hazardous Waste Determination) for at least three years from the date that the waste was last sent to an on-site or off-site storage, processing or disposal facility.

(b) The generator shall keep a copy of each annual report and exception report required by this title for a period of at least three years from the due date of the report.

(c) The periods of record retention required by subsections (a) and (b) of this section are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the executive director.

Effective May 28, 1986

§335.71. Biennial Reporting.

In addition to annual reporting which is required under §335.9 of this title (relating to Recordkeeping and Annual Reporting Procedures Applicable to Generators), in every even-numbered year facilities subject to the United States Environmental Protection Agency biennial reporting requirements shall submit to the commission information as required by 40 Code of Federal Regulations §262.41. Upon request, this supplemental information shall be prepared in a form provided or approved by the executive director and submitted within the specified timeframe. Activities covered in the report shall be for the previous odd-numbered report year. Facilities subject to the United States Environmental Protection Agency biennial reporting requirements include all Large Quantity Generators of hazardous waste for any month during the previous odd-numbered report year.

Effective February 4, 1994

§335.73. Additional Reporting.

The executive director may require generators to furnish additional reports concerning the quantities and disposition of wastes identified or listed in 40 Code of Federal Regulations Part 261, Subparts C and D.

Effective May 28, 1986

§335.74. Special Requirements for Generators of Between 100 and 1,000 Kilograms Per Month.

A generator who generates greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month is exempt from the recordkeeping and reporting requirements of this subchapter, except for §335.70(a) and (c) (relating to Recordkeeping); and §335.73 of this title (relating to Additional Reporting); and §335.13(a) and (g) (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste and Primary Exporters of Hazardous Waste. Such generators are subject to the requirements of §335.9 of this title (relating to Recordkeeping and Annual Reporting Procedures Applicable to Generators).

Effective November 23, 1993

§335.75. Notification Requirements for Interstate Shipments.

In the case of interstate shipments of hazardous waste for which a manifest has not been returned within 45 days of acceptance of the waste by the initial transporter, the generator shall notify the appropriate regulatory agency of the state in which the designated facility is located and the appropriate regulatory agency of the state in which the shipment may have been delivered. If a state required to be notified under this section has not received interim or final authorization pursuant to the Resource Conservation and Recovery Act of 1976, §3006, the generator shall notify the administrator that the manifest has not been returned.

Effective July 14, 1987

§335.76. Additional Requirements Applicable to International Shipments.

(a) Any person who exports hazardous waste to a foreign country or imports hazardous waste from a foreign country into the state must comply with the requirements of this title and with the special requirements of this section. Except to the extent the regulations contained in 40 Code of Federal Regulations (CFR) §262.58, as amended and adopted through April 12, 1996 (61 FR 16290) provide otherwise, a primary exporter of hazardous waste must comply with the special requirements of this section as they apply to primary exporters, and a transporter transporting hazardous waste for export must comply with applicable requirements of §335.11 of this title (relating to Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste) and §335.14 of this title (relating to Recordkeeping Requirements Applicable to Transporters of Hazardous Waste or Class 1 Waste) and Subchapter D of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste). 40 CFR §262.58 sets forth the requirements of international agreements between the United States and receiving countries which establish different notice, export, and enforcement procedures for the transportation, processing, storage, and disposal of hazardous waste for shipments between the United States and those countries.

(b) Exports of hazardous waste are prohibited except in compliance with the applicable requirements of this subchapter, the special requirements of this section, and §335.11 of this title (relating to Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste) and §335.14 of this title (relating to Recordkeeping Requirements Applicable to Transporters of Hazardous Waste or Class 1 Waste) and Subchapter D of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste). Exports of hazardous waste are prohibited unless:

(1) notification in accordance with the regulations contained in 40 CFR §262.53, as amended and adopted through April 12, 1996 (61 FR 16290) has been provided;

(2) the receiving country has consented to accept the hazardous waste;

(3) a copy of the EPA acknowledgment of consent to the shipment accompanies the hazardous waste shipment and, unless exported by rail, is attached to the manifest (or shipping paper for exports by water (bulk shipment));

(4) the hazardous waste shipment conforms to the terms of the receiving country's written consent as reflected in the EPA acknowledgment of consent; and

(5) the primary exporter complies with the manifest requirements of §335.10(a) - (d) of this title (relating to Shipping and Reporting Procedures Applicable to Generators of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste) except that:

(A) in lieu of the name, site address, and EPA ID number of the designated permitted facility, the primary exporter must enter the name and site address of the consignee;

(B) in lieu of the name, site address and EPA ID number of a permitted alternate facility, the primary exporter may enter the name and site address of any alternate consignee;

(C) in special handling instructions and additional information, the primary exporter must identify the point of departure from the United States;

(D) the following statement must be added to the end of the first sentence of the certification set forth in item 16 of the uniform hazardous waste manifest form, as set out in §335.10(b)(23) of this title: "and conforms to the terms of the attached EPA acknowledgment of consent";

(E) the primary exporter must require the consignee to confirm in writing the delivery of the hazardous waste to that facility and to describe any significant discrepancies (as defined in §335.12(c)(1) of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities) as the subsection applies to hazardous waste between the manifest and the shipment. A copy of the manifest signed by such facility may be used to confirm delivery of the hazardous waste;

(F) in lieu of the requirements of §335.10(a) of this title, where a shipment cannot be delivered for any reason to the designated or alternate consignee, the primary exporter must:

(i) renotify EPA of a change in the conditions of the original notification to allow shipment to a new consignee in accordance with the regulations contained in 40 CFR §262.53(c), which are in effect as of November 8, 1986, and obtain an EPA acknowledgment of consent prior to delivery; or

(ii) instruct the transporter to return the waste to the primary exporter in the United States or designate another facility within the United States; and

(iii) instruct the transporter to revise the manifest in accordance with the primary exporter's instructions;

(G) the primary exporter must attach a copy of the EPA acknowledgment of consent to the shipment to the manifest which must accompany the hazardous waste shipment. For exports by rail or water (bulk shipment), the primary exporter must provide the transporter with an EPA acknowledgment of consent which must accompany the hazardous waste but which need not be attached to the manifest except that for exports by water (bulk shipment) the primary exporter must attach the copy of the EPA acknowledgment of consent to the shipping paper; and

(H) the primary exporter shall provide the transporter with an additional copy of the manifest for delivery to the United States customs official at the point the hazardous waste leaves the United States in accordance with §335.11(g)(4) of this title.

(c) A primary exporter must submit an exception report to the executive director if:

(1) he has not received a copy of the manifest signed by the transporter stating the date and place of departure from the United States within 45 days from the date it was accepted by the initial transporter;

(2) within 90 days from the date the waste was accepted by the initial transporter, the primary exporter has not received written confirmation from the foreign consignee that the hazardous waste was received; or

(3) the waste was returned to the United States.

(d) When importing hazardous waste into the state from a foreign country, a person must prepare a manifest in accordance with the requirements of §335.10 of this title for the manifest except that:

(1) in place of the generator's name, address, and EPA identification number, the name and address of the foreign generator and the importer's name, address, and EPA identification number must be used;

(2) in place of the generator's signature on the certification statement, the United States importer or his agent must sign and date the certification and obtain the signature of the initial transporter; and

(3) a person who imports hazardous waste must obtain the manifest form from the consignment state if the state supplies the manifest and requires its use. If the consignment state does not supply the manifest form, then the manifest form may be obtained from any source.

(e) Any person exporting hazardous waste shall file an annual report with the executive director as required in §335.9 of this title (relating to Recordkeeping and Annual Reporting Procedures Applicable to Generators) summarizing the types, quantities, frequency, and ultimate destination of all such hazardous waste exported during the previous calendar year.

(f) Any person who exports hazardous waste to a foreign country or imports hazardous waste from a foreign country into the state must comply with the requirements of the regulations contained in 40 CFR §262.58 (International Agreements), as amended and adopted through April 12, 1996 (61 FR 16290).

(g) Except to the extent that they are clearly inconsistent with Texas Health and Safety Code, Chapter 361, or the rules of the commission, primary exporters must comply with the regulations contained in 40 CFR §262.57, which are in effect as of November 8, 1986.

(h) Transfrontier shipments of hazardous waste for recovery within the Organization for Economic Cooperation and Development are subject to 40 CFR Part 262, Subpart H, which is adopted by reference as amended and adopted in the CFR through April 12, 1996, at 61 FedReg 16290.

Adopted October 24, 2001

Effective November 15, 2001

§335.77. Farmers.

A farmer disposing of waste pesticides from his own use which are hazardous wastes is not required to comply with this chapter for those wastes provided that he triple rinses each emptied pesticide container in accordance with §335.41(f)(2)(C) of this title (relating to Purpose, Scope and Applicability) and disposes of the pesticide residues on his own farm in a manner consistent with the disposal instructions on the pesticide label.

Effective July 14, 1987

§335.78. Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators.

(a) A generator is a conditionally exempt small quantity generator in a calendar month if he generates no more than 100 kilograms of hazardous waste in that month.

(b) Except for those wastes identified in subsections (e) - (g) and (j) of this section, a conditionally exempt small quantity generator's hazardous wastes are not subject to regulation under Subchapters C - H and O of this chapter (relating to Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; Standards for the Management of Specific Wastes and Specific Types of Facilities; and Land Disposal Restrictions); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this

title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits); or the notification requirements of the Resource Conservation and Recovery Act, §3010, provided the generator complies with the requirements of subsections (f), (g), and (j) of this section.

(c) When making the quantity determinations of Subchapters A - C of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste in General; Hazardous Waste Management General Provisions; and Standards Applicable to Generators of Hazardous Waste), the generator must include all hazardous waste it generates, except hazardous waste that:

(1) is exempt from regulation under 40 Code of Federal Regulations (CFR) §261.4(c) - (f), §335.24(c) of this title (relating to Requirements For Recyclable Materials and Nonhazardous Recyclable Materials), §335.41(f)(1) of this title (relating to Purpose, Scope and Applicability), or 40 CFR §261.8;

(2) is managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in §335.1 of this title (relating to Definitions);

(3) is recycled, without prior storage or accumulation, only in an on-site process subject to regulation under §335.24(f) of this title (relating to Requirements For Recyclable Materials and Nonhazardous Recyclable Materials);

(4) is used oil managed under the requirements of §335.24(j) of this title and Chapter 324 of this title (relating to Used Oil);

(5) are spent lead-acid batteries managed under the requirements of §335.251 of this title (relating to Applicability and Requirements); or

(6) is universal waste managed under §335.41(j) of this title (relating to Purpose, Scope and Applicability) and Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule).

(d) In determining the quantity of hazardous waste generated, a generator need not include:

(1) hazardous waste when it is removed from on-site storage provided that the waste was counted at the time it was generated;

(2) hazardous waste which is generated or collected for the purpose of treatability studies;

(3) hazardous waste produced by on-site processing (including reclamation) of his hazardous waste, so long as the hazardous waste that is processed was counted once; or

(4) spent materials that are generated, reclaimed, and subsequently reused on-site, so long as such spent materials have been counted once.

(e) If a generator generates acute hazardous waste in a calendar month in quantities greater than set forth in paragraphs (1) or (2) of this subsection, all quantities of that acute hazardous waste are subject to full regulation under Subchapters C - H and O of this chapter (relating to Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; and Standards for the Management of Specific Wastes and Specific Types of Facilities; and Land Disposal Restrictions); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits); and the notification requirements of the Resource Conservation and Recovery Act, §3010:

(1) a total of one kilogram of acute hazardous waste listed in 40 CFR §§261.31, 261.32, or 261.33(e); or

(2) a total of 100 kilograms of any residue or contaminated soil, waste, or other debris resulting from the clean-up of a spill, into or on any land or water, of any acute hazardous wastes listed in 40 CFR §§261.31, 261.32, or 261.33(e).

(f) In order for acute hazardous wastes generated by a generator of acute hazardous wastes in quantities equal to or less than those set forth in subsection (e)(1) or (2) of this section to be excluded from full regulation under this section, the generator must comply with the following requirements:

(1) The generator must comply with the requirements in §335.62 of this title (relating to Hazardous Waste Determination).

(2) The generator may accumulate acute hazardous waste on-site. If the generator accumulates at any time acute hazardous wastes in quantities greater than those set forth in subsection (e)(1) or (2) of this section, all of those accumulated wastes are subject to regulation under Subchapters

C - H and O of this chapter (relating to Standards Applicable to Generators of Hazardous Waste; Standards Applicable to Transporters of Hazardous Waste; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; Standards for the Management of Specific Wastes and Specific Types of Facilities; and Land Disposal Restrictions); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits); and the notification requirements of the Resource Conservation and Recovery Act, §3010. The time period of §335.69(f) of this title (relating to Accumulation Time) for accumulation of wastes on-site begins when the accumulated wastes exceed the applicable exclusion limit.

✓(3) A conditionally exempt small quantity generator may either process or dispose of its acute hazardous waste in an on-site facility, or ensure delivery to an off-site storage, processing or disposal facility, either of which, if located in the United States, is:

- ✓(A) permitted by the EPA under 40 CFR Part 270;
- (B) in interim status under 40 CFR Parts 270 and 265;
- (C) authorized to manage hazardous waste by a state with a hazardous waste management program approved under 40 CFR Part 271;
- ✓(D) permitted, licensed, or registered by a state to manage municipal solid waste and, if managed in a municipal solid waste landfill, is subject to 40 CFR Part 258;
- ✓(E) permitted, licensed, or registered by a state to manage non-municipal non-hazardous waste and, if managed in a non-municipal ~~non-hazardous~~ waste disposal unit after January 1, 1998, is subject to the requirements in 40 CFR §§257.5 - 257.30;
- ✓(F) a facility which:
 - (i) beneficially uses or reuses, or legitimately recycles or reclaims its waste; or

Waste or
(ii) processes its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or W

(G) for universal waste managed under Subchapter H, Division 5 of this chapter, a universal waste handler or destination facility subject to the requirements of Subchapter H, Division 5 of this chapter.

✓(g) In order for hazardous waste generated by a conditionally exempt small quantity generator in quantities of less than 100 kilograms of hazardous waste during a calendar month to be excluded from full regulation under this section, the generator must comply with the following requirements:

✓(1) The conditionally exempt small quantity generator must comply with §335.62 of this title.

(2) The conditionally exempt small quantity generator may accumulate hazardous waste on-site. If such generator accumulates at any time more than a total of 1000 kilograms of its hazardous wastes, all of those accumulated wastes are subject to regulation under the special provisions of this subchapter applicable to generators of between 100 kilograms and 1000 kilograms of hazardous waste in a calendar month as well as the requirements of Subchapters D-H and O of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste; Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities; Location Standards for Hazardous Waste Storage, Processing, or Disposal; Standards for the Management of Specific Wastes and Specific Types of Facilities; and Land Disposal Restrictions); Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits); and the notification requirements of the Resource Conservation and Recovery Act, §3010. The time period of §335.69(f) of this title (relating to Accumulation Time) for accumulation of wastes on-site begins for a conditionally exempt small quantity generator when the accumulated wastes exceed 1000 kilograms;

✓(3) A conditionally exempt small quantity generator may either process or dispose of its hazardous waste in an on-site facility, or ensure delivery to an off-site storage, processing or disposal facility, either of which, if located in the United States, is:

✓(A) permitted by the EPA under 40 CFR Part 270;

(B) in interim status under 40 CFR Parts 270 and 265;

(C) authorized to manage hazardous waste by a state with a hazardous waste management program approved under 40 CFR Part 271;

(D) permitted, licensed, or registered by a state to manage municipal solid waste and, if managed in a municipal solid waste landfill, is subject to 40 CFR Part 258 or equivalent or more stringent rules under Chapter 330 of this title (relating to Municipal Solid Waste);

(E) permitted, licensed, or registered by a state to manage non-municipal or industrial non-hazardous waste and, if managed in a non-municipal or industrial non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in 40 CFR §§257.5 - 257.30 or equivalent or more stringent counterpart rules that may be adopted by the commission relating to additional requirements for industrial non-hazardous waste disposal units that may receive hazardous waste from conditionally exempt small quantity generators;

(F) a facility which:

(i) beneficially uses or reuses, or legitimately recycles or reclaims its waste; or

(ii) processes its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or

(G) for universal waste managed under Subchapter H, Division 5 of this chapter, a universal waste handler or destination facility subject to the requirements of Subchapter H, Division 5 of this chapter.

(h) Hazardous waste subject to the reduced requirements of this section may be mixed with non-hazardous waste and remain subject to these reduced requirements even though the resultant mixture exceeds the quantity limitations identified in this section, unless the mixture meets any of the characteristics of hazardous waste identified in 40 CFR Part 261, Subpart C.

(i) If any person mixes a solid waste with a hazardous waste that exceeds a quantity exclusion level of this section, the mixture is subject to full regulation under this chapter.

(j) If a conditionally exempt small quantity generator's wastes are mixed with used oil, the mixture is subject to Chapter 324 of this title (relating to Used Oil Standards) and 40 CFR Part 279 if it is destined to be burned for energy recovery. Any material produced from such a mixture by processing, blending, or other treatment is also so regulated if it is destined to be burned for energy recovery.

**SUBCHAPTER D: STANDARDS APPLICABLE TO TRANSPORTERS
OF HAZARDOUS WASTE**

§§335.91 - 335.94

Effective November 15, 2001

✓ **§335.91. Scope.**

(a) This subchapter establishes standards for transporters transporting hazardous waste to off-site storage, processing, or disposal facilities. These standards are in addition to any applicable provisions contained in Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General).

(b) This subchapter does not apply to on-site transportation of hazardous waste by generators or by owners or operators of storage, processing or disposal facilities.

(c) A transporter of hazardous waste must also comply with any standards applicable to generators of hazardous waste if he:

(1) transports hazardous waste into the state from a foreign country; or

(2) mixes hazardous waste of different Department of Transportation shipping descriptions by placing them into a single container.

(d) Transporters who store hazardous waste are owners or operators of storage facilities and, as such, are also subject to the permit requirements and storage standards contained in this chapter.

(e) A transporter of hazardous waste subject to the federal manifesting requirements of 40 Code of Federal Regulations (CFR) Part 262, or subject to state hazardous waste manifesting requirements of §335.11 of this title (relating to Shipping Requirements for Transporters of Hazardous Waste or Class 1 Waste), or subject to the universal waste management standards of 40 CFR Part 273, or subject to Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule), that is being imported from or exported to any of the countries listed in 40 CFR §262.58(a)(1) for purposes of recovery is subject to this subchapter and to all other relevant requirements of 40 CFR Part 262, Subpart H, including, but not limited to, 40 CFR §262.84 for tracking documents.

(f) The regulations in this chapter do not apply to transportation during an explosives or munitions emergency response conducted in accordance with §335.41(d)(2) of this title (relating to Purpose, Scope and Applicability).

(g) 40 CFR §266.203, as adopted by reference under Subchapter H, Division 6 of this chapter (relating to Military Munitions), identifies how the requirements of this subchapter apply to military munitions classified as solid waste under 40 CFR §266.202.

Adopted October 24, 2001

Effective November 15, 2001

§335.92. EPA Identification Number.

A transporter must not transport hazardous wastes without having received an Environmental Protection Agency (EPA) identification number.

Effective May 28, 1986

§335.93. Hazardous Waste Discharges.

(a) In the event of a discharge of hazardous waste during transportation, the transporter shall notify the commission as soon as possible and not later than 24 hours after the occurrence, according to the provisions of the Texas Water Code, §26.039, and the procedures set out in the State Oil and Hazardous Substances Spill Contingency Plan, and also take appropriate immediate action to protect human health and the environment (e.g., notify local authorities, dike the discharge).

(b) If a discharge of hazardous waste occurs during transportation and a commission official acting within the scope of his official responsibilities determines that immediate removal of the waste is necessary to protect human health or the environment, that official may authorize the removal of the waste by transporters who do not have EPA identification numbers and without the preparation of a manifest.

(c) An air, rail, highway, or water transporter who has discharged hazardous waste must also:

(1) give notice, if required by 49 Code of Federal Regulations (CFR) §171.15, to the National Response Center (800-424-8802 or 202-426-2675); and

(2) report in writing as required by 49 CFR §171.16 to the Director, Office of Hazardous Waste Materials Regulations, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590.

(d) A water (bulk shipment) transporter who has discharged hazardous waste must give the same notice as required by 33 CFR §153.203 for oil and hazardous substances.

(e) A transporter must clean up any hazardous waste discharge that occurs during transportation or take such action as required in §327.5 of this title (relating to Actions Required) so that the hazardous waste discharge no longer presents a hazard to human health or the environment.

Adopted October 24, 2001

Effective November 15, 2001

§335.94. Transfer Facility Requirements.

(a) Unless the executive director determines that a permit should be required in order to protect human health and the environment, a transporter who stores manifested shipments of hazardous waste in containers meeting the requirements of §335.65 of this title (relating to Packaging) at a transfer facility owned or operated by a registered transporter for a period of ten days or less is not subject to the requirement for a permit under §335.2 of this title (relating to Permit Required), with respect to the storage of those wastes provided that the transporter complies with the following sections:

- (1) 40 Code of Federal Regulations (CFR) §265.14 (relating to Security);
- (2) 40 CFR §265.15 (relating to General Inspection Requirements);
- (3) 40 CFR §265.16 (relating to Personnel Training);
- (4) 40 CFR Part 265, Subpart C;
- (5) 40 CFR Part 265, Subpart D (except §265.56(j)) and §335.113 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator); and
- (6) 40 CFR Part 265, Subpart I.

(b) The executive director may require a permit for that portion of a facility otherwise exempted from that requirement under subsection (a) of this section, with respect to the storage of hazardous waste in containers, if the facility's operation also includes other storage and processing of hazardous waste which is not exempt under subsection (a) of this section.

Adopted October 24, 2001

Effective November 15, 2001

**SUBCHAPTER F: PERMITTING STANDARDS FOR OWNERS AND
OPERATORS OF HAZARDOUS WASTE STORAGE, PROCESSING, OR
DISPOSAL FACILITIES**

§335.151 - 335.153, 335.155 - 335.183

Effective November 18, 2001

§335.151. Purpose, Scope and Applicability.

(a) The purpose of this subchapter is to establish minimum standards to define the acceptable management of hazardous waste. These standards are to be applied in the evaluation of an application for a permit to manage hazardous waste, pursuant to the Texas Solid Waste Disposal Act, Chapter 361 TEX. HEALTH & SAFETY CODE ANN. (Vernon Pamphlet 1992), and in the evaluation of an investigation report to implement groundwater protection requirements relating to compliance monitoring and corrective action; and in the evaluation of corrective action measures to be instituted pursuant to §335.167 of this title (relating to Corrective Action for Solid Waste Management Units). For facilities that store, process or dispose of industrial solid waste, in addition to hazardous waste, nothing herein shall be construed to restrict or abridge the commission's authority to implement the provisions of the Texas Water Code, Chapter 26, and §335.4 of this title (relating to General Prohibitions), with respect to those activities.

(b) The standards in this subchapter apply to owners and operators of all facilities which process, store or dispose of hazardous waste, except as specifically provided for in §335.41 of this title (relating to Purpose, Scope and Applicability).

(c) A facility owner or operator who has fully complied with the requirements for interim status, as defined in §3005(e) of the Resource Conservation and Recovery Act and §335.2 and §335.43 of this title (relating to Permit Required), must comply with the requirements of Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) in lieu of the requirements of this subchapter, until final administrative disposition of his permit application is made, except as provided under Title 40 Code of Federal Regulations Part 264 Subpart S.

Adopted

Effective February 22, 1994

✓ §335.152. Standards.

(a) The following regulations contained in 40 Code of Federal Regulations (CFR) Part 264 (including all appendices to Part 264) are adopted by reference as amended and adopted in the CFR through June 1, 1990 (55 FR 22685) and as further amended and adopted as indicated in each paragraph of this subsection:

(1) Subpart B--General Facility Standards (as amended through December 8, 1997 (62 FR 64636)); in addition, the facilities which are subject to 40 CFR Part 264, Subpart X, are subject to regulation under 40 CFR §264.15(b)(4) and §264.18(b)(1)(ii);

(2) Subpart C--Preparedness and Prevention;

(3) Subpart D--Contingency Plan and Emergency Procedures, except 40 CFR §264.56(d);

(4) Subpart E--Manifest System, Recordkeeping, and Reporting (as amended through December 8, 1997 (62 FR 64636)), except 40 CFR §§264.71, 264.72, 264.76 and 264.77; facilities which are subject to 40 CFR Part 264, Subpart X, are subject to 40 CFR §264.73(b)(6);

(5) Subpart G--Closure and Post-Closure (as amended through August 18, 1992 (57 FR 37194)); facilities which are subject to 40 CFR Part 264, Subpart X, are subject to 40 CFR §§264.90(d), 264.111(c), 264.112(a)(2), 264.114, 264.117(a)(1)(i) and (ii), and 264.118(b)(1) and (2)(i) and (ii);

(6) Subpart H--Financial Requirements (as amended through June 10, 1994 (59 FR 29958)); except 40 CFR §§264.140, 264.141, 264.142(a)(2), 264.142(b) - (c), 264.143(a) - (h), 264.144(b) - (c), 264.145(a) - (h), 264.146, 264.147(a) - (d), 264.147(f) - (k), 264.148, 264.149, 264.150, and 264.151; and subject to the following limitations: facilities which are subject to 40 CFR Part 264, Subpart X, are subject to 40 CFR §§264.142(a), 264.144(a), and 37.6031(c) of this title (relating to Financial Assurance Requirements for Liability);

(7) Subpart I--Use and Management of Containers (as amended through November 25, 1996 (61 FR 59932));

(8) Subpart J--Tank Systems (as amended through November 25, 1996 (61 FR 59932));

(9) Subpart K--Surface Impoundments (as amended through November 25, 1996 (61 FR 59932)), except 40 CFR §264.221 and §264.228:

(A) reference to 40 CFR §264.221 is changed to §335.168 of this title (relating to Design and Operating Requirements (Surface Impoundments));

(B) reference to 40 CFR §264.228 is changed to §335.169 of this title (relating to Closure and Post-Closure Care (Surface Impoundments));

(10) Subpart L--Waste Piles (as amended and adopted through January 29, 1992 (57 FR 3462)), except 40 CFR §264.251;

(11) Subpart M--Land Treatment, except 40 CFR §264.273 and §264.280;

(12) Subpart N--Landfills (as amended through November 18, 1992 (57 FR 54452)), except 40 CFR §§264.301, 264.310, 264.314, and 264.315;

(13) Subpart O--Incinerators (as amended through September 30, 1999 (64 FR 52828));

(14) Subpart S--Corrective Action for Solid Waste Management Units (as amended through February 16, 1993 (58 FR 8683)), and 40 CFR §264.554 (as amended through November 30, 1998 (63 FR 65874));

(15) Subpart W--Drip Pads (as amended through December 24, 1992 (57 FR 61492));

(16) Subpart X--Miscellaneous Units (as amended through September 30, 1999 (64 FR 52828));

(17) Subpart AA--Air Emission Standards for Process Vents (as amended through January 21, 1999 (64 FR 3382));

(18) Subpart BB--Air Emission Standards for Equipment Leaks (as amended through December 8, 1997 (62 FR 64636));

(19) Subpart CC--Air Emission Standards for Tanks, Surface Impoundments, and Containers (as amended through January 21, 1999 (64 FR 3382));

(20) Subpart DD--Containment Buildings (as amended through August 18, 1992 (57 FR 37194));

(21) Subpart EE--Hazardous Waste Munitions and Explosives Storage (as amended through February 12, 1997 (62 FR 6622)); and

(22) the following appendices contained in 40 CFR Part 264:

(A) Appendix I--Recordkeeping Instructions (as amended through March 24, 1994 (59 FR 13891));

(B) Appendix IV--Cochron's Approximation to the Behrens-Fisher Students' T-Test;

(C) Appendix V--Examples of Potentially Incompatible Waste;

(D) Appendix VI--Political Jurisdictions in Which Compliance With §264.18(a) Must Be Demonstrated; and

(E) Appendix IX--Ground-Water Monitoring List (as amended through June 13, 1997 (62 FR 32451)).

(b) The provisions of 40 CFR §264.18(b) are applicable to owners and operators of hazardous waste management facilities, for which a permit is being sought, which are not subject to the requirements of §§335.201 - 335.206 of this title (relating to Location Standards for Hazardous Waste Storage, Processing, or Disposal). A copy of 40 CFR §264.18(b) is available for inspection at the library of the Texas Natural Resource Conservation Commission, located on the first floor of Building A at 12100 Park 35 Circle, Austin, Texas.

(c) The regulations of the EPA that are adopted by reference in this section are adopted subject to the following changes.

(1) The term "regional administrator" is changed to the "executive director" of the Texas Natural Resource Conservation Commission or to the commission, consistent with the organization of the commission as set out in the Texas Water Code, Chapter 5, Subchapter B.

(2) The term "treatment" is changed to "processing."

(3) Reference to RCRA, §3008(h) is changed to Texas Water Code, §7.031(c) - (e) (relating to Corrective Action Relating to Hazardous Waste).

(4) Reference to:

(A) 40 CFR §260.10 is changed to §335.1 of this title (relating to Definitions);

(B) 40 CFR §264.1 is changed to §335.151 of this title (relating to Purpose, Scope, and Applicability);

(C) 40 CFR §264.280 is changed to §335.172 of this title (relating to Closure and Post-Closure Care (Land Treatment Units));

(D) 40 CFR §264.90 is changed to §335.156 of this title (relating to Applicability of Groundwater Monitoring and Response);

(E) 40 CFR §264.101 is changed to §335.167 of this title (relating to Corrective Action for Solid Waste Management Units);

(F) 40 CFR §264.310 is changed to §335.174 of this title (relating to Closure and Post-Closure Care (Landfills));

(G) 40 CFR §270.41 is changed to §305.62 of this title (relating to Amendment); and

(H) 40 CFR §270.42 is changed to §305.69 of this title (relating to Solid Waste Permit Modification at the Request of the Permittee).

(5) 40 CFR Parts 260 - 270 means the commission's rules including, but not limited to, Chapters 50, 305, and 335 of this title (relating to Action on Applications and Other Authorizations; Consolidated Permits; and Industrial Solid Waste and Municipal Hazardous Waste), as applicable.

(6) Reference to 40 CFR Part 264, Subpart D is changed to §335.152(a)(3) of this title (relating to Standards) and §335.153 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator).

(7) Reference to 40 CFR §§264.71, 264.72, 264.76, and 264.77 is changed to §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities), §335.12(c)(1) and (2) of this title, §335.15(3) of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities), and §335.155 of this title (relating to Additional Reports), respectively.

(8) Reference to 40 CFR Part 264, Subpart F is changed to §335.156 of this title, §335.157 of this title (relating to Required Programs), §335.158 of this title (relating to Groundwater Protection Standard), §335.159 of this title (relating to Hazardous Constituents), §335.160 of this title (relating to Concentration Limits), §335.161 of this title (relating to Point of Compliance), §335.162 of this title (relating to Compliance Period), §335.163 of this title (relating to General Groundwater Monitoring Requirements), §335.164 of this title (relating to Detection Monitoring Program), §335.165 of this title (relating to Compliance Monitoring Program), §335.166 of this title (relating to Corrective Action Program), and §335.167 of this title.

(9) Reference to 40 CFR Part 265, Subpart F is changed to include §335.116 of this title (relating Applicability of Groundwater Monitoring Requirements) and §335.117 of this title (relating to Recordkeeping and Reporting), in addition to the reference to 40 CFR Part 265, Subpart F, except §265.90 and §265.94.

(10) Reference to the EPA is changed to the Texas Natural Resource Conservation Commission.

(d) A copy of 40 CFR Part 264 is available for inspection at the library of the Texas Natural Resource Conservation Commission, located on the first floor of Building A at 12100 Park 35 Circle, Austin.

Adopted October 24, 2001

Effective November 18, 2001

§335.153. Reporting of Emergency Situations by Emergency Coordinator.

If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside the facility, he must report his findings as follows:

(1) If his assessment indicates that evacuation of local areas may be advisable, he must immediately notify appropriate local authorities. He must be available to help appropriate local officials decide whether local areas should be evacuated.

(2) He must immediately notify the commission according to procedures set out in the State of Texas Oil and Hazardous Substances Spill Contingency Plan. The report must include:

- (A) name and telephone number of reporter;
- (B) name and address of facility;
- (C) time and place of incident (e.g., release, fire);
- (D) name and quantity of material(s) involved, to the extent known;
- (E) the extent of injuries, if any; and
- (F) the possible hazards to human health, or the environment, outside the facility.

Adopted

Effective May 28, 1986

§335.155. Additional Reports.

In addition to submitting the waste reports described in §335.15 of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners and Operators of Storage, Processing, or Disposal Facilities), the owner or operator must also report to the executive director:

- (1) releases, fires, and explosions as specified in 40 Code of Federal Regulations (CFR) §264.56(j);
- (2) facility closure as specified in 40 CFR §264.115;
- (3) as otherwise required by 40 CFR Part 264, Subparts F, K-N, X, AA, and BB.

Adopted October 24, 2001

Effective November 15, 2001

§335.156. Applicability of Groundwater Monitoring and Response.

(a) Except as provided in subsection (b) of this section, the rules pertaining to groundwater monitoring and response apply to owners and operators of facilities that process, store, or dispose of hazardous waste.

(1) The owner or operator must satisfy those requirements of paragraph (2) of this subsection for all wastes (or constituents thereof) contained in any such waste management unit at the facility, regardless of the time at which waste was placed in the units.

(2) all solid waste management units must comply with the requirements in §335.167 of this title (relating to Corrective Action for Solid Waste Management Units). A surface impoundment, waste pile, land treatment unit or landfill that receives hazardous waste after July 26, 1982, (hereinafter referred to as a regulated unit) must comply with the requirements of §§335.157-335.166 of this title (relating to Required Program; Groundwater Protection Standard; Hazardous Constituents; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program)[;] in lieu of §335.167 of this title (relating to Corrective Action for Solid Waste Management Units) for purposes of detecting, characterizing, and responding to releases to the uppermost aquifer. The financial responsibility requirements of §335.167 of this title (relating to Corrective Action for Solid Waste Management Units) apply to regulated units.

(b) The owner or operator's regulated unit or units are not subject to regulation for releases into the uppermost aquifer under this section and §§335.157-335.166 of this title (relating to Required Programs; Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program) if:

(1) He is exempted under 40 Code of Federal Regulations §264.1;

(2) He operates a unit which the commission finds:

-
- (A) is an engineered structure;
 - (B) does not receive or contain liquid waste or waste containing free liquids;
 - (C) is designed and operated to exclude liquid, precipitation, and other run-on and run-off;
 - (D) has both inner and outer layers of containment enclosing the waste;
 - (E) has a leak detection system built into each containment layer for which continuing operation and maintenance will be provided during the active life of the unit and the closure and post-closure care periods; and

(F) to a reasonable degree of certainty, will not allow hazardous constituents to migrate beyond the outer containment layer prior to the end of the post-closure care period.

(3) The commission finds, pursuant to 40 Code of Federal Regulations §264.280(d), that the treatment zone of a land treatment unit that qualifies as a regulated unit does not contain levels of hazardous constituents that are above background levels of those constituents by an amount that is statistically significant, and if an unsaturated zone monitoring program meeting the requirements of 40 Code of Federal Regulations §264.278 has not shown a statistically significant increase in hazardous constituents below the treatment zone during the operating life of the unit. An exemption under this paragraph can only relieve an owner or operator of responsibility to meet the requirements of this subchapter relating to groundwater monitoring and response during the post-closure care period; or

(4) The commission finds that there is no potential for migration of liquid from a regulated unit to the uppermost aquifer during the active life of the regulated unit (including the closure period) and the post-closure care period specified under 40 Code of Federal Regulations §261.117. This demonstration must be certified by a qualified geologist or geotechnical engineer. In order to provide an adequate margin of safety in the prediction of potential migration of liquid, the owner or operator must base any predictions on assumptions that maximize the rate of liquid migration.

(5) He designs and operates a pile in compliance with 40 Code of Federal Regulations §264.250(c).

(c) This section and §§335.157-335.166 of this title (relating to Required Programs; Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program) apply during the active life of the regulated unit (including the closure period). After closure of the regulated unit, these sections:

(1) do not apply if all waste, waste residues, contaminated containment system components, and contaminated subsoils are removed or decontaminated at closure;

(2) apply during the post-closure care period under 40 Code of Federal Regulations §264.117 if the owner or operator is conducting a detection monitoring program under §335.164 of this title (relating to Detection Monitoring Program); or

(3) apply during the compliance period under §335.162 of this title (relating to Compliance Period) if the owner or operator is conducting a compliance monitoring program under §335.165 of this title (relating to Compliance Monitoring Program) or a corrective action program under §335.166 of this title (relating to Corrective Action Program).

§335.157. Required Programs.

(a) Owners and operators subject to §335.156 of this title (relating to Applicability of Groundwater Monitoring and Response); this section and §§335.158-335.166 of this title (relating to Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance, Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program, and Corrective Action Program) must conduct a monitoring and response program as follows:

(1) Whenever hazardous constituents under §335.159 of this title (relating to Hazardous Constituents) from a regulated unit are detected at the compliance point under §335.161 of this title (relating to Point of Compliance), the owner or operator must institute a compliance monitoring program under §335.165 of this title (relating to Compliance Monitoring Program). "Detected" is defined as statistically significant evidence of contamination as described in §335.164(6) of this title (relating to Detection Monitoring Program).

(2) Whenever the groundwater protection standard under §335.158 of this title (relating to Groundwater Protection Standard) is exceeded, the owner or operator must institute a corrective action program under §335.166 of this title (relating to Corrective Action Program). "Exceeded" is defined as statistically significant evidence of increased contamination as described in §335.165(4) of this title (relating to Compliance Monitoring Program).

(3) Whenever hazardous constituents under §335.159 of this title (relating to Hazardous Constituents) from a regulated unit exceed concentration limits under §335.160 of this title (relating to Concentration Limits) in groundwater between the compliance point under §335.161 of this title (relating to Point of Compliance) and the downgradient facility property boundary, the owner or operator must institute a corrective action program under §335.166 of this title (relating to Corrective Action Program).

(4) In all other cases, the owner or operator must institute a detection monitoring program under §335.164 of this title (relating to Detection Monitoring Program).

(b) The commission will specify in the facility permit or in a compliance plan the specific elements of the monitoring and response program. The commission may include one or more of the programs identified in subsection (a) of this section in the facility permit or in a compliance plan as may be necessary to protect human health and the environment and will specify the circumstances under which each of the programs will be required. The commission will establish the programs identified in (a)(1) - (3) of this section in a compliance plan. If the owner or operator is not otherwise subject to compliance monitoring, the detection monitoring program will be established in the facility permit. In deciding whether to require the owner or operator to be prepared to institute a particular

program, the commission will consider the potential adverse effects on human health and the environment that might occur before final administrative action to incorporate such a program could be taken.

Adopted

Effective October 29, 1990

§335.158. Groundwater Protection Standard.

The owner or operator must comply with conditions specified in the facility permit that are designed to ensure that hazardous constituents under §335.159 of this title (relating to Hazardous Constituents) which have been detected in the groundwater from a regulated unit do not exceed the concentration limits under §335.160 of this title (relating to Concentration Limits) in the uppermost aquifer underlying the waste management area beyond the point of compliance during the compliance period under §335.162 of this title (relating to Compliance Period). The commission will establish this groundwater protection standard in the compliance plan when hazardous constituents have been detected in the groundwater from a regulated unit.

Adopted

Effective October 29, 1990

§335.159. Hazardous Constituents.

(a) The commission will specify in the compliance plan the hazardous constituents to which the groundwater protection standard of §335.158 of this title (relating to Groundwater Protection Standard) applies. Hazardous constituents are constituents identified in Appendix VIII of 40 Code of Federal Regulations Part 261 that have been detected in groundwater in the uppermost aquifer underlying a regulated unit and that are reasonably expected to be in or derived from waste contained in a regulated unit, unless the commission has excluded them under subsection (b) of this section.

(b) The commission will exclude an Appendix VIII constituent from the list of hazardous constituents specified in the compliance plan if it finds that the constituent is not capable of posing a substantial present or potential hazard to human health or the environment. In deciding whether to grant an exemption, the commission will consider the following:

(1) Potentially adverse effects on groundwater quality, considering:

(A) The physical and chemical characteristics of the waste in the regulated unit, including its potential for migration;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity of groundwater and the direction of groundwater flow;

(D) The proximity and withdrawal rates of groundwater users;

- (E) The current and future uses of groundwater in the area;
 - (F) The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater quality;
 - (G) The potential for health risks caused by human exposure to waste constituents;
 - (H) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;
 - (I) The persistence and permanence of the potentially adverse effects; and
- (2) Potentially adverse effects on hydraulically-connected surface water quality, considering:
- (A) The volume and physical and chemical characteristics of the waste in the regulated unit;
 - (B) The hydrogeological characteristics of the facility and surrounding land;
 - (C) The quantity and quality of groundwater, and the direction of groundwater flow;
 - (D) The patterns of rainfall in the region;
 - (E) The proximity of the regulated unit to surface waters;
 - (F) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;
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- (G) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface water quality;
 - (H) The potential for health risks caused by human exposure to waste constituents;
 - (I) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and
 - (J) The persistence and permanence of the potentially adverse effects.
- (c) In making any determination under subsection (b) of this section about the use of groundwater in the area around the facility, the commission will consider any identification of

underground sources of drinking water and exempted aquifers made under §331.13 of this title (relating to Exempted Aquifer).

Adopted April 28, 1999

Effective May 20, 1999

§335.160. Concentration Limits.

(a) The commission will specify in the compliance plan concentration limits in the groundwater for hazardous constituents established under §335.159 of this title (relating to Hazardous Constituents). The concentration of a hazardous constituent:

(1) Must not exceed the background level of that constituent in the groundwater at the time that limit is specified in the plan;

(2) For any of the constituents listed in Table 1 of subsection (b)(1) of this section, must not exceed the respective value given in that table if the background level of the constituent is below the value given in Table 1; or

(3) Must not exceed an alternate limit established by the commission under subsection(b) of this section.

(b) The commission will establish an alternate concentration limit for a hazardous constituent if it finds that the constituent will not pose a substantial present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded. In establishing alternate concentration limits, the commission will consider the following:

(1) Potentially adverse effects on groundwater quality, considering the maximum concentration of constituents for groundwater protection described in the following Table 1:

Table 1

Maximum Concentration of constituents for Groundwater Protection

Constituent	Maximum Concentration ¹
Arsenic	0.05
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Mercury	0.002
Selenium	0.01
Silver	0.05

Endrin (1, 2, 3, 4, 10,10-hexachloro-1,7-epoxy-1, 4, 4a, 5, 6, 7, 8, 9a-octahydro-1, 4-endo, endo-5,8-dimethano naphthalene)	0.0002
Lindane (1, 2, 3, 4, 5, 6-hexachlorocyclohexane, gamma isomer)	0.004
Methoxychlor (1, 1,1-Trichloro-2, 2-bis (p-methoxy-phenylethane)	0.1
Toxaphene (C(-H(-C1, Technical chlorinated camphene, 67-69 percent chlorine)	0.005
2-4-D 2m 4-Dichlorophenoxyacetic acid)	0.1
2, 4, 5-TP Silvex (2, 4, 5-Trichlorophenoxypropionic acid	0.01

¹Milligrams per liter.

(A) The physical and chemical characteristics of the waste in the regulated unit, including its potential for migration;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity of groundwater and the direction of groundwater flow;

(D) The proximity and withdrawal rates of groundwater users;

(E) The current and future uses of groundwater in the area;

(F) The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater quality;

(G) The potential for health risks caused by human exposure to waste constituents;

(H) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;

(I) The persistence and permanence of the potentially adverse effects; and

(2) Potentially adverse effects on hydraulically-connected surface-water quality, considering:

(A) The volume and physical and chemical characteristics of the waste in the regulated unit;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity and quality of groundwater, and the direction of groundwater flow;

(D) The patterns of rainfall in the region;

- (E) The proximity of the regulated unit to surface waters;
- (F) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;
- (G) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface-water quality;
- (H) The potential for health risks caused by human exposure to waste constituents;
- (I) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and
- (J) The persistence and permanence of the potentially adverse effects.

(c) In making any determination under subsection (b) of this section about the use of groundwater in the area around the facility the commission will consider any identification of underground sources of drinking water and exempted aquifers made under §331.13 of this title (relating to Exempted Aquifer).

Adopted

Effective May 28, 1986

§335.161. Point of Compliance.

(a) The commission will specify in the facility permit the point of compliance at which the groundwater protection standard of §335.158 of this title (relating to Groundwater Protection Standard) applies and at which monitoring must be conducted. The point of compliance is a vertical surface located at the hydraulically downgradient limit of the waste management area that extends down into the uppermost aquifer underlying the regulated units.

(b) The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of a regulated unit.

(1) The waste management area includes horizontal space taken up by any liner, dike, or other barrier designed to contain waste in a regulated unit;

(2) If the facility contains more than one regulated unit, the waste management area may be described in the following manner:

- (A) By an imaginary line circumscribing the several regulated units;
- (B) By an imaginary line circumscribing geographically proximate regulated units;

(C) By an imaginary line circumscribing individually regulated units; or

(D) A combination of subparagraphs (B) and (C) of this paragraph.

Adopted

Effective May 28, 1986

§335.162. Compliance Period.

(a) The commission will specify in the compliance plan the compliance period during which the groundwater protection standard of §335.158 of this title (relating to Groundwater Protection Standard) applies. The compliance period is the number of years equal to the active life of the waste management area (including any waste management activity prior to permitting and the closure period).

(b) The compliance period begins when the owner or operator initiates a compliance monitoring program meeting the requirements of §335.165 of this title (relating to Compliance Monitoring program).

(c) If the owner or operator is engaged in a corrective action program at the end of the compliance period specified in subsection (a) of this section, the compliance period is extended until the owner or operator can demonstrate that the groundwater protection standard of §335.158 of this title (relating to Groundwater Protection Standard) has not been exceeded for a period of three consecutive years.

Adopted

Effective May 28, 1986

§335.163. General Groundwater Monitoring Requirements.

If a facility contains more than one waste management area, separate groundwater monitoring systems must be installed. The owner or operator must comply with the following requirements for any groundwater monitoring program developed to satisfy §335.164-335.166 of this title (relating to Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program).

(1) The groundwater monitoring system must consist of a sufficient number of wells, installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer that:

(A) Represent the quality of background water that has not been affected by leakage from a regulated unit;

(i) A determination of background quality may include sampling of wells that are not hydraulically upgradient of the waste management area where hydrogeologic conditions do not allow the owner or operator to determine what wells are hydraulically upgradient; and

(ii) Sampling at other wells will provide an indication of background groundwater quality that is representative or more representative than that provided by the upgradient wells;

(B) Represent the quality of groundwater passing the point of compliance; and

(C) Allow for detection of contamination when hazardous waste or hazardous constituents have migrated from the waste management area to the uppermost aquifer.

(2) If a waste management area contains more than one regulated unit, separate groundwater monitoring systems are not required for each regulated unit provided that provisions for sampling the groundwater in the uppermost aquifer will enable detection and measurement at the compliance point of hazardous constituents from the regulated units that have entered the groundwater in the uppermost aquifer.

(3) All monitoring wells must be cased in a manner that maintains the integrity of the monitoring-well bore hole. This casing must be screened or perforated and packed with gravel or sand, where necessary, to enable collection of groundwater samples. The annular space (i.e., the space between the bore hole and well casing) above the sampling depth must be sealed to prevent contamination of samples and the groundwater.

(4) The groundwater monitoring program must include consistent sampling and analysis procedures that are designed to ensure monitoring results that provide a reliable indication of groundwater quality below the waste management area. At a minimum the program must include procedures and techniques for:

(A) Sample collection;

(B) Sample preservation and shipment;

(C) Analytical procedures; and

(D) Chain of custody control.

(5) The groundwater monitoring program must include sampling and analytical methods that are appropriate for groundwater sampling and that accurately measure hazardous constituents in groundwater samples.

(6) The groundwater monitoring program must include a determination of the groundwater surface elevation each time groundwater is sampled.

(7) In detection monitoring or where appropriate in compliance monitoring, data on each hazardous constituent specified in the permit will be collected from background wells and wells at the compliance point(s). The number and kinds of samples collected to establish background shall be

appropriate for the form of statistical test employed and shall follow generally accepted statistical principles. The sample size shall be as large as necessary to ensure with reasonable confidence that a contaminant released to groundwater from a facility will be detected. The owner or operator will determine an appropriate sampling procedure and interval for each hazardous constituent listed in the facility permit. This sampling procedure shall be:

(A) A sequence of at least four samples, taken at an interval that assures, to the greatest extent technically feasible, that an independent sample is obtained, by reference to the uppermost aquifer's effective porosity, hydraulic conductivity, and hydraulic gradient, and the fate and transport characteristics of the potential contaminants, or

(B) an alternate sampling procedure proposed by the owner or operator of the facility and approved by the commission.

(8) The owner or operator will specify one of the following statistical methods to be used in evaluating groundwater monitoring data for each hazardous constituent which, upon approval by the commission, will be specified in the facility's permit on a unit by unit basis. The statistical test chosen shall be conducted separately for each hazardous constituent in each well. Where practical quantification limits (PQLs) are used in any of the following statistical procedures to comply with subparagraph (9)(E) of this section, the PQL must be proposed by the owner or operator and approved by the executive director. Use of any of the following statistical methods must be protective of human health and the environment and must comply with the performance standards outlined in paragraph (9) of this section.

(A) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent.

(B) An analysis of variance (ANOVA) based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent.

(C) A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.

(D) A control chart approach that gives control limits for each constituent.

(E) Another statistical test method submitted by the owner or operator and approved by the executive director.

(9) Any statistical method chosen under paragraph (8) of this section for specification in the unit permit shall comply with the following performance standards, as appropriate.

(A) The statistical method used to evaluate groundwater monitoring data shall be appropriate for the distribution of chemical parameters or hazardous constituents. If the distribution of the chemical parameters or hazardous constituents is shown by the owner or operator to be inappropriate for a normal theory test, then the data should be transformed or a distribution-free theory test should be used. If the distributions for the constituents differ, more than one statistical method may be needed.

(B) If an individual well comparison procedure is used to compare an individual compliance well constituent concentration with background constituent concentrations or a groundwater protection standard, the test shall be done at a Type I error level no less than 0.01 for each testing period. If a multiple comparisons procedure is used, the Type I experiment wise error rate for each testing period shall be no less than 0.05; however, the Type I error of no less than 0.01 for individual well comparisons must be maintained. This performance standard does not apply to tolerance intervals, prediction intervals or control charts.

(C) If a control chart approach is used to evaluate groundwater monitoring data, the specific type of control chart and its associated parameter values shall be proposed by the owner or operator and approved by the commission if it finds it to be protective of human health and the environment.

(D) If a tolerance interval or a prediction interval is used to evaluate groundwater monitoring data, the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain, shall be proposed by the owner or operator and approved by the commission if it finds these parameters to be protective of human health and the environment. These parameters will be determined after considering the number of samples in the background data base, the data distribution, and the range of the concentration values for each constituent of concern.

(E) The statistical method shall account for data below the limit of detection with one or more statistical procedures that are protective of human health and the environment. Any PQL approved by the executive director under paragraph (8) of this section that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility.

(F) If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.

(10) Groundwater monitoring data collected in accordance with paragraph (7) of this section including actual levels of constituents must be maintained in the facility operating record. The commission will specify in the permit when the data must be submitted for review.

§335.164. Detection Monitoring Program.

An owner or operator required to establish a detection monitoring program must, at a minimum, discharge the following responsibilities:

(1) The owner or operator must monitor for indicator parameters (e.g., specific conductance, total organic carbon, or total organic halogen), waste constituents, or reaction products that provide a reliable indication of the presence of hazardous constituents in groundwater. The commission will specify the parameters or constituents to be monitored in the facility permit, after considering the following factors:

(A) the types, quantities, and concentrations of constituents in wastes managed at the regulated unit;

(B) the mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone beneath the waste management area;

(C) the detectability of indicator parameters, waste constituents, and reaction products in groundwater; and

(D) the concentrations or values and coefficients of variation of proposed monitoring parameters or constituents in the groundwater background.

(2) The owner or operator must install a groundwater monitoring system at the compliance point as specified under §335.161 of this title (relating to Point of Compliance). The groundwater monitoring system must comply with §335.163(1)(B), (2), and (3) of this title (relating to General Groundwater Monitoring Requirements).

(3) The owner or operator must conduct a groundwater monitoring program for each chemical parameter and hazardous constituent specified in its permit pursuant to paragraph (1) of this section in accordance with §335.163(7) of this title. The owner or operator must maintain a record of groundwater analytical data as measured and in a form necessary for the determination of statistical significance under §335.163(8) of this title.

(A) The owner or operator must comply with §335.163(7) of this title in developing the data base used to determine background values.

(B) The owner or operator must express background values in a form necessary for the determination of statistically significant increases under §335.163(8) of this title .

(C) In taking samples used in the determination of background values, the owner or operator must use a groundwater monitoring system that complies with §335.163(1)(A), (2), and (3) of this title.

(4) The commission will specify the frequencies for collecting samples and conducting statistical tests to determine whether there is statistically significant evidence of contamination for any parameter or hazardous constituent specified in the permit under paragraph (1) of this section in accordance with §335.163(7) of this title. A sequence of at least four samples from each well (background and compliance wells) must be collected at least semiannually during detection monitoring.

(5) The owner or operator must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.

(6) The owner or operator must determine whether there is statistically significant evidence of contamination for any chemical parameter or hazardous constituent specified in the permit pursuant to paragraph (1) of this section at a frequency specified under paragraph (4) of this section.

(A) In determining whether statistically significant evidence of contamination exists, the owner or operator must use the method(s) specified in the permit under §335.163(8) of this title. These method(s) must compare data collected at the compliance point(s) to the background groundwater quality data.

(B) The owner or operator must determine whether there is statistically significant evidence of contamination at each monitoring well at the compliance point within a reasonable period of time after completion of sampling. The commission will specify in the facility permit what period of time is reasonable, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of groundwater samples.

(7) If the owner or operator determines pursuant to paragraph (6) of this section that there is statistically significant evidence of contamination for chemical parameters or hazardous constituents specified pursuant to paragraph (1) of this section at any monitoring well at the compliance point, he must:

(A) notify the executive director of this finding in writing within seven days. The notification must indicate what chemical parameters or hazardous constituents have shown statistically significant evidence of contamination;

(B) immediately sample the groundwater in all monitoring wells that exhibit statistically significant evidence of contamination and determine whether constituents in the list of Appendix IX of 40 Code of Federal Regulations Part 264 are present, and if so, in what concentration;

(C) For any Appendix IX compounds found in the analysis pursuant to subparagraph (B) of this paragraph, the owner or operator may resample within one month and repeat the analysis for those compounds detected. If the results of the second analysis confirm the initial results, then these constituents will form the basis for compliance monitoring. If the owner or operator does not resample for the compounds found pursuant to subparagraph (B) of this paragraph, the hazardous constituents found during this initial Appendix IX analysis will form the basis for compliance monitoring.

(D) within 90 days, submit to the executive director an application for a permit amendment or modification to establish a compliance monitoring program meeting the requirements of §335.165 of this title (relating to Compliance Monitoring Program). The application must include the following information:

(i) an identification of the concentration of any Appendix IX constituent detected in the groundwater at each monitoring well that exhibits statistically significant evidence of contamination at the compliance point;

(ii) any proposed changes to the groundwater monitoring system at the facility necessary to meet the requirements of §335.165 of this title;

(iii) any proposed additions or changes to the monitoring frequency, sampling and analysis procedures or methods, or statistical methods used at the facility necessary to meet the requirements of §335.165 of this title; and

(iv) for each hazardous constituent detected at the compliance point, a proposed concentration limit under §335.160(a)(1) or (2) of this title (relating to Concentration Limits), or a notice of intent to seek an alternate concentration limit under §335.160(b) of this title;

(E) within 180 days, submit to the executive director:

(i) all data necessary to justify an alternate concentration limit sought under §335.160(b) of this title (relating to Concentration Limits);

(ii) an engineering feasibility plan for a corrective action program necessary to meet the requirements of §335.166 of this title (relating to Corrective Action Program), unless:

(I) all hazardous constituents identified under subparagraph(b) of this paragraph are listed in Table 1 of §335.160 of this title (relating to Concentration Limits) and their concentrations do not exceed the respective values given in that table; or

(II) the owner or operator has sought an alternate concentration limit under §335.160(b) of this title (relating to Concentration Limits) for every hazardous constituent identified under subparagraph (B) of this paragraph.

(F) if the owner or operator determines, pursuant to paragraph (6) of this section, that there is a statistically significant difference for chemical parameters or hazardous constituents specified pursuant to paragraph (1) of this section at any monitoring well at the compliance point, he or she may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis, or statistical evaluation or natural variation in the groundwater. The owner operator may make a demonstration under this paragraph in addition to, or in lieu of, submitting a permit amendment or modification application under

subparagraph (D) of this paragraph; however, the owner or operator is not relieved of the requirement to submit a permit amendment or modification application within the time specified in subparagraph (D) of this paragraph unless the demonstration made under this paragraph successfully shows that a source other than a regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation. In making a demonstration under this paragraph, the owner or operator must:

(i) notify the executive director in writing within seven days of determining statistically significant evidence of contamination at the compliance point that he intends to make a demonstration under this paragraph;

(ii) within 90 days, submit a report to the executive director which demonstrates that a source other than a regulated unit caused the contamination or that the contamination resulted from error in sampling, analysis, or evaluation;

(iii) within 90 days, submit to the executive director an application for a permit amendment or modification to make any appropriate changes to the detection monitoring program at the facility; and

(iv) continue to monitor in accordance with the detection monitoring program established under this section.

(8) If the owner or operator determines that the detection monitoring program no longer satisfies the requirements of this section, he must, within 90 days, submit an application for a permit amendment or modification to make any appropriate changes to the program.

Adopted October 24, 2001

Effective November 15, 2001

§335.165. Compliance Monitoring Program.

An owner or operator required to establish a compliance monitoring program must, at a minimum, discharge the following responsibilities.

(1) The owner or operator must monitor the groundwater to determine whether regulated units are in compliance with the groundwater protection standard under §335.158 of this title (relating to Groundwater Protection Standard). The commission will specify the groundwater protection standard in the compliance plan, including:

(A) a list of the hazardous constituents identified under §335.159 of this title (relating to Hazardous Constituents);

(B) concentration limits under §335.160 of this title (relating to Concentration Limits) for each of those hazardous constituents;

(C) the compliance point under §335.161 of this title (relating to Point of Compliance); and

(D) the compliance period under §335.162 of this title (relating to Compliance Period).

(2) The owner or operator must install a groundwater monitoring system at the compliance point as specified under §335.161 of this title. The groundwater monitoring system must comply with §335.163(1)(B), (2), and (3) of this title (relating to General Groundwater Monitoring Requirements).

(3) The commission will specify the sampling procedures and statistical methods appropriate for the constituents at the facility, consistent with §335.163(7) and (8) of this title.

(A) The owner or operator must conduct a sampling program for each chemical parameter or hazardous constituent in accordance with §335.163(7) of this title.

(B) The owner or operator must record groundwater analytical data as measured by and in a form necessary for the determination of statistical significance under §335.163(8) of this title for the compliance period of the facility.

(4) The owner or operator must determine whether there is statistically significant evidence of increased contamination for any chemical parameter or hazardous constituent specified in the permit, pursuant to paragraph (1) of this section, at a frequency specified under paragraph (6) under this section.

(A) In determining whether statistically significant evidence of increased contamination exists, the owner or operator must use the method(s) specified in the permit under §335.163(8) of this title. The method(s) must compare data collected at the compliance point(s) to a concentration limit developed in accordance with §335.163 of this title.

(B) The owner or operator must determine whether there is statistically significant evidence of increased contamination at each monitoring well at the compliance point within a reasonable time period after completion of sampling. The commission will specify that time period in the facility permit after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of groundwater samples.

(5) The owner or operator must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.

(6) The commission will specify the frequencies for collecting samples and conducting statistical tests to determine statistically significant evidence of increased contamination in accordance with §335.163(7) of this title. A sequence of at least four samples from each well (background and compliance wells) must be collected at least semiannually during the compliance period of the facility.

(7) The owner or operator must analyze samples from all monitoring wells at the compliance point for all constituents contained in Appendix IX of 40 Code of Federal Regulations Part 264 reasonably expected to be in or derived from waste managed at the site at least annually to determine whether additional hazardous constituents are present in the uppermost aquifer and, if so, at what concentration, pursuant to procedures in §335.164(6) of this title (relating to Detection Monitoring Program). If the owner or operator finds Appendix IX constituents in the groundwater that are not already identified in the permit as monitoring constituents, the owner or operator may resample within one month and repeat the Appendix IX analysis. If the second analysis confirms the presence of new constituents, the owner or operator must report the concentration of these additional constituents to the executive director within seven days after the completion of the second analysis and add them to the monitoring list. If the owner or operator chooses not to resample, then he must report the concentrations of these additional constituents to the executive director within seven days after completion of the initial analysis and add them to the monitoring list.

(8) If the owner or operator determines, pursuant to paragraph (4) of this section, that any concentration limits under §335.160 of this title are being exceeded at any monitoring well at the point of compliance, he must:

(A) notify the executive director of this finding in writing within seven days. The notification must indicate what concentration limits have been exceeded;

(B) submit to the executive director an investigation report to establish a corrective action program meeting the requirements of §335.166 of this title (relating to Corrective Action Program) within 180 days, or within 90 days if an engineering feasibility study has been previously submitted to the executive director under §335.164(7)(E) of this title. The report must at a minimum include the following information:

(i) a detailed description of corrective actions that will achieve compliance with the groundwater protection standard specified in the permit under paragraph (1) of this section; and

(ii) a plan for a groundwater monitoring program that will demonstrate the effectiveness of the corrective action. Such a groundwater monitoring program may be based on a compliance monitoring program developed to meet the requirements of this section.

(9) If the owner or operator determines, pursuant to paragraph (4) of this section, that the groundwater concentration limits are being exceeded at any monitoring well at the point of compliance, he may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by error in sampling, analysis, or evaluation or natural variation in groundwater. In making a demonstration under this subsection, the owner or operator must:

(A) notify the executive director in writing within seven days that he intends to make a demonstration under this section;

(B) within 90 days submit a report to the executive director which demonstrates that a source other than a regulated unit caused the standard to be exceeded or that the apparent noncompliance with the standards resulted from error in sampling, analysis, or evaluation;

(C) within 90 days submit to the executive director an application for a compliance plan amendment or compliance modification to make any appropriate change to the compliance monitoring program at the facility; and

(D) continue to monitor in accord with the compliance monitoring program established under this section.

(10) If the owner or operator determines that the compliance monitoring program no longer satisfies the requirements of this section, he must, within 90 days, submit an application for a plan modification to make any appropriate changes to the program.

(11) The owner or operator shall prepare an annual summary to include the groundwater quality data and groundwater flow rate and direction required under paragraphs (3) and (5) of this section. Such annual summary shall be submitted to the executive director by January 21 of each year on forms provided or approved by the executive director. An owner or operator must keep a copy of the summary for a period of at least three years from the due date of the summary. The period of record retention required by this section is automatically extended during the course of any unresolved enforcement action regarding the regulated activity.

Adopted October 24, 2001

Effective November 15, 2001

§335.166. Corrective Action Program.

An owner or operator required to establish a corrective action program must, at a minimum, discharge the following responsibilities:

(1) The owner or operator must take corrective action to ensure that regulated units ~~are in compliance with the groundwater protection standard under §335.158 of this title (relating to Groundwater Protection Standard).~~ The commission will specify the groundwater protection standard in the compliance plan, including:

(A) A list of the hazardous constituents identified under §335.159 of this title (relating to Hazardous Constituents);

(B) Concentration limits under §335.160 of this title (relating to Concentration Limits) for each of those hazardous constituents;

(C) The compliance point under §335.161 of this title (relating to Point of Compliance); and

(D) The compliance period under §335.162 of this title (relating to Compliance Period).

(2) The owner or operator must implement a corrective action program that prevents hazardous constituents from exceeding their respective concentration limits at the compliance point by removing the hazardous waste constituents or treating them in place. The plan will specify the specific measures that will be taken.

(3) The owner or operator must begin corrective action within a reasonable time period after the groundwater protection standard is exceeded. The commission will specify that time period in the plan. If a compliance plan includes a corrective action program in addition to a compliance monitoring program, the plan will specify when the corrective action will begin and such a requirement will operate in lieu of §335.165(9)(B) of this title (relating to Compliance Monitoring Program).

(4) In conjunction with a corrective action program, the owner or operator must establish and implement a groundwater monitoring program to demonstrate the effectiveness of the corrective action program. Such a monitoring program may be based on the requirements for a compliance monitoring program under §335.165 of this title (relating to Compliance Monitoring Program) and must be as effective as that program in determining compliance with the groundwater protection standard under paragraph (5) of this section, where appropriate.

(5) In addition to the other requirements of this section, the owner or operator must conduct a corrective action program to remove or treat in place any hazardous constituents under §335.159 of this title (relating to Hazardous Constituents) that exceed concentration limits under §335.160 of this title (relating to Concentration Limits) in groundwater between the compliance point under §335.161 of this title (relating to Point of Compliance) and the downgradient facility property boundary and beyond the facility boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the executive director that, despite the owner's or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action. The owner/operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. The plan will specify the measures to be taken.

(A) Corrective action measures under this section must be initiated and completed within a reasonable period of time considering the extent of contamination.

(B) Corrective action measures under this section may be terminated once the concentration of hazardous constituents under §335.159 of this title (relating to Hazardous Constituents) is reduced to levels below their respective concentration under §335.160 of this title (relating to Concentration Limits).

(6) The owner or operator must continue corrective action measures during the compliance period to the extent necessary to ensure that the groundwater protection standard is not exceeded. If the owner or operator is conducting corrective action at the end of the compliance period, he must continue that corrective action for as long as necessary to achieve compliance with the groundwater protection standard. The owner or operator may terminate corrective action measures taken beyond the period equal to the active life of the waste management area (including the closure period) if he can demonstrate, based on data from the groundwater monitoring program under paragraph (4) of this section, that the groundwater protection standard of §335.158 of this title (relating to Groundwater Protection Standard) has not been exceeded for a period of three consecutive years.

(7) The owner or operator must report in writing to the executive director on the effectiveness of the corrective action program. The owner or operator must submit these reports semiannually.

(8) If the owner or operator determines that the corrective action program no longer satisfies the requirements of this section, he must, within 90 days, submit an application for a plan modification to make any appropriate changes to the program.

Adopted

Effective November 23, 1993

§335.167. Corrective Action for Solid Waste Management Units.

(a) The owner or operator of a facility seeking a permit for the processing, storage, or disposal of hazardous waste must institute corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management unit at the facility, regardless of the time at which waste was placed in such unit.

(b) Corrective action will be specified in the compliance plan under §305.401 of this title (relating to Groundwater Compliance Plan) and in accordance with this section, 40 Code of Federal Regulations Part 264 Subpart S, and §335.152 of this title (relating to Standards). The plan will contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit or plan. Financial assurance for such corrective action shall be established and maintained in accordance with Chapter 37, Subchapter P of this title (relating to Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities) in an amount acceptable to the executive director.

(c) The owner or operator must implement corrective actions beyond the facility boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the executive director that, despite the owner's or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action. The owner/operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Financial assurance for such corrective action shall be established

and maintained in accordance with Chapter 37, Subchapter P of this title, in an amount acceptable to the executive director.

Adopted February 24, 2000

Effective March 21, 2000

§335.168. Design and Operating Requirements (Surface Impoundments).

(a) Any surface impoundment that is not covered by subsection (c) of this section or 40 Code of Federal Regulations (CFR) §265.221 must have a liner for all portions of the impoundment (except for existing portions of such impoundments). The liner must be designed, constructed, and installed to prevent any migration of wastes out of the impoundment to the adjacent subsurface soil or groundwater or surface water at any time during the active life (including the closure period) of the impoundment. The liner may be constructed of materials that may allow wastes to migrate into the liner (but not into the adjacent subsurface soil or groundwater or surface water) during the active life of the facility, provided that the impoundment is closed in accordance with §335.169(a)(1) of this title (relating to Closure and Post-Closure Care (Surface Impoundments)). For impoundments that will be closed in accordance with §335.169(a)(2) of this title, the liner must be constructed of materials that can prevent wastes from migrating into the liner during the active life of the facility. The liner must be:

(1) constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(2) placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(3) installed to cover all surrounding earth likely to be in contact with the waste or leachate.

(b) The owner or operator will be exempted from the requirements of subsections (a) and (j) of this section if the commission finds, based on a demonstration by the owner or operator, that alternate design and operating practices, together with location characteristics, will prevent the migration of any hazardous constituents (see §335.159 of this title (relating to Hazardous Constituents)) into the groundwater or surface water at any future time. In deciding whether to grant an exemption, the commission will consider:

(1) the nature and quantity of the wastes;

(2) the proposed alternate design and operation;

(3) the hydrogeologic setting of the facility, including the attenuative capacity and thickness of the liners and soils present between the impoundment and groundwater or surface water; and

(4) all other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to groundwater or surface water.

(c) The owner or operator of each new surface impoundment unit on which construction commences after January 29, 1992, each lateral expansion of a surface impoundment unit on which construction commences after July 29, 1992, and each replacement of an existing surface impoundment unit that is to commence reuse after July 29, 1992, must meet the requirements of 40 CFR §264.221(c), as amended through January 29, 1992 (57 FR 3487).

(d) The executive director may approve alternative design or operating practices to those specified in subsection (c) of this section if the owner or operator demonstrates to the executive director that he meets the requirements of 40 CFR 264.221(d), as amended through January 29, 1992 (57 FR 3462).

(e) The double liner requirement set forth in subsection (c) of this section may be waived by the commission for any monofill which contains only hazardous wastes from foundry furnace emission controls or metal casting molding sand, and such wastes do not contain constituents which would render the wastes hazardous for reasons other than the toxicity characteristics in 40 CFR §261.24, and is in compliance with either of the following requirements:

(1) the monofill:

(A) has at least one liner for which there is no evidence that such liner is leaking. For the purposes of this subsection, the term "liner" means a liner designed, constructed, installed, and operated to prevent hazardous waste from passing into the liner at any time during the active life of the facility, or a liner designed, constructed, installed, and operated to prevent hazardous waste from migrating beyond the liner to adjacent subsurface soil, groundwater, or surface water at any time during the active life of the facility. In the case of any surface impoundment which has been exempted from the requirements of subsection (c) of this section on the basis of a liner designed, constructed, installed, and operated to prevent hazardous waste from passing beyond the liner, at the closure of such impoundment, the owner or operator must remove or decontaminate all waste residues, all contaminated liner material, and contaminated soil to the extent practicable. If all contaminated soil is not removed or decontaminated, the owner or operator of such impoundment will comply with appropriate post-closure requirements, including, but not limited to, groundwater monitoring and corrective action;

(B) is located more than ¼ mile from an underground source of drinking water (as that term is defined in §331.2 of this title (relating to Definitions)); and

(C) in compliance with groundwater monitoring requirements of this subchapter; or

(2) the owner or operator demonstrates that the monofill is located, designed, and operated so as to assure that there will be no migration of any hazardous constituent into groundwater or surface water at any future time.

(f) The owner or operator of any replacement surface impoundment unit is exempt from subsection (c) of this section if:

(1) The existing unit was constructed in compliance with the design standards of Resource Conservation and Recovery Act, §3004(o)(1)(A)(i) and (o)(5); and

(2) There is no reason to believe that the liner is not functioning as designed.

(g) A surface impoundment must be designed, constructed, maintained, and operated to prevent overtopping resulting from normal or abnormal operations, overfilling, wind, and wave action; rainfall; run-off, malfunctions of level controllers, alarms, and other equipment; and human error.

(h) A surface impoundment must have dikes that are designed, constructed, and maintained with sufficient structural integrity to prevent massive failure of the dikes. In ensuring structural integrity, it must not be presumed that the liner system will function without leakage during the active life of the unit.

(i) The commission will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied.

(j) A surface impoundment (except for an existing portion of a surface impoundment) that will be closed in accordance with §335.169(a)(2) of this title must have an additional liner to that required in subsection (a) of this section which:

(1) prevents any migration of wastes out of the impoundment to the adjacent subsurface soil or groundwater or surface water at any time prior to the end of the post-closure care period; and

(2) minimizes the rate of migration of wastes out of the impoundment to the adjacent subsurface soil or groundwater or surface water so as not to pose a substantial present or potential hazard to human health and the environment.

Adopted October 24, 2001

Effective November 15, 2001

§335.169. Closure and Post-Closure Care (Surface Impoundments).

(a) At closure, the owner or operator must:

(1) remove or decontaminate all waste residues, contaminated containment system components (liners, etc.) contaminated subsoils, and structures and equipment contaminated with waste

and leachate, and manage them as hazardous waste unless 40 Code of Federal Regulations (CFR) §261.3(d) applies; or

(2) eliminate free liquids by removing liquid wastes or solidifying the remaining wastes and waste residues; stabilize remaining wastes to a bearing capacity sufficient to support final cover; and cover the surface impoundment with a final cover designed and constructed to:

(A) provide long-term minimization of the migration of liquids through the closed impoundment;

(B) function with minimum maintenance;

(C) promote drainage and minimize erosion or abrasion of the final cover;

(D) accommodate settling and subsidence so that the cover's integrity is maintained; and

(E) have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.

(b) If some waste residues or contaminated materials are left in place at final closure, the owner or operator must comply with all post-closure requirements contained in 40 CFR §§264.117 - 264.120, including maintenance and monitoring throughout the post-closure care period (specified in the permit under 40 CFR §264.117). The owner or operator must:

(1) maintain the integrity and effectiveness of the final cover including making repairs to the cap as necessary to correct the effects of settling, subsidence, erosion, or other events;

(2) maintain and monitor the leak detection system in accordance with 40 CFR §§264.221(c)(2)(iv) and (3) and 264.226(d), and comply with all other applicable leak detection system requirements of this subchapter;

(3) maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of §§335.156 - 335.166 of this title (relating to Applicability of Groundwater Monitoring and Response; Required Programs; Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program); and

(4) prevent run-on and run-off from eroding or otherwise damaging the final cover.

(c) If an owner or operator plans to close a surface impoundment in accordance with subsection (a)(1) of this section, and the impoundment does not comply with the liner requirements of §335.168(a)

of this title (relating to Design and Operating Requirements (Surface Impoundments)) and is not exempt from them in accordance with §335.168(b) of this title, then:

(1) the closure plan for the impoundment under 40 CFR §264.112 must include both a plan for complying with subsection (a)(1) of this section and a contingent plan for complying with subsection (a)(2) of this section, in case not all contaminated subsoils can be practicably removed at closure; and the owner or operator must prepare a contingent post-closure plan under 40 CFR §264.118 for complying with subsection (b) of this section, in case not all contaminated subsoils can be practicably removed at closure;

(2) the cost estimates calculated under 40 CFR §264.142 and §264.144 for closure and post-closure care of an impoundment subject to this subsection must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under subsection (a)(1) of this section.

Adopted October 24, 2001

Effective November 15, 2001

§335.170. Design and Operating Requirements (Waste Piles).

(a) A waste pile (except for an existing portion of a waste pile) must have:

(1) a liner that is designed, constructed, and installed to prevent any migration of wastes out of the pile into the adjacent subsurface soil or groundwater or surface water at any time during the active life (including the closure period) of the waste pile. The liner may be constructed of materials that may allow waste to migrate into the liner itself (but not into the adjacent subsurface soil or groundwater or surface water) during the active life of the facility. The liner must be:

(A) constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(B) placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(C) installed to cover all surrounding earth likely to be in contact with the waste or leachate; and

(2) A leachate collection and removal system immediately above the liner that is designed, constructed, maintained, and operated to collect and remove leachate from the pile. The commission will specify design and operating conditions in the permit to ensure that the leachate depth over the liner does not exceed 30 centimeters (one foot). The leachate collection and removal system must be:

(A) Constructed of materials that are:

(i) Chemically resistant to the waste managed in the pile and the leachate expected to be generated; and

(ii) Of sufficient strength and thickness to prevent collapse under the pressures exerted by overlaying wastes, waste cover materials, and by any equipment used at the pile; and

(B) Designed and operated to function without clogging through the scheduled closure of the waste pile.

(b) The owner or operator will be exempted from the requirements of subsection (a) of this section if the commission finds, based on a demonstration by the owner or operator, that alternate design and operating practices, together with location characteristics, will prevent the migration of any hazardous constituents into the groundwater or surface water at any future time. In deciding whether to grant an exemption, the commission will consider:

(1) The nature and quantity of the wastes;

(2) The proposed alternate design and operation;

(3) The hydrogeologic setting of the facility, including attenuative capacity and thickness of the liners and soils present between the pile and groundwater or surface water; and

(4) All other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to groundwater or surface water.

(c) The owner and operator of each new waste pile unit on which construction commences after January 29, 1992, each lateral expansion of a waste pile unit on which construction commences after July 29, 1992, and each replacement of an existing waste pile unit that is to commence reuse after July 29, 1992, must comply with the requirements of 40 CFR §264.251(c), as amended through January 29, 1992, at 57 FedReg 3488.

(d) The executive director may approve alternative design or operating practices to those specified in subsection (c) of this section if the owner or operator demonstrates to the executive director that such design and operating practices, together with location characteristics:

(1) Will prevent the migration of any hazardous constituent into the ground water or surface water at least as effectively as the liners and leachate collection and removal systems specified in subsection (c) of this section; and

(2) Will allow detection of leaks of hazardous constituents through the top liner at least as effectively.

(e) Subsection (c) of this section does not apply to monofills that are granted a waiver by the commission in accordance with §335.168(e) of this title (relating to Design and Operating Requirements (Surface Impoundments))

(f) The owner or operator of any replacement waste pile unit is exempt from subsection (c) of this section if:

(1) The existing unit was constructed in compliance with the design standards of §3004(o)(1)(A)(i) and (o)(5) of the Resource Conservation and Recovery Act; and

(2) There is no reason to believe that the liner is not functioning as designed.

(g) The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the pile during peak discharge from at least a 100-year storm.

(h) The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume from active portions resulting from a 24-hour, 100-year storm.

(i) Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system.

(j) If the pile contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the pile to control wind dispersal.

(k) The commission will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied.

Adopted January 30, 1996

Effective February 26, 1996

§335.171. Design and Operating Requirements (Land Treatment Units).

The commission will specify in the facility permit how the owner or operator will design, construct, operate, and maintain the land treatment unit in compliance with this section.

(1) The owner or operator must design, construct, operate, and maintain the unit to maximize the degradation, transformation, and immobilization of hazardous constituents in the treatment zone. The owner or operator must design, construct, operate, and maintain the unit in accord with all design and operating conditions that were used in the treatment demonstration under 40 Code of Federal Regulations §264.272. At a minimum, the commission will specify the following in the facility permit:

- (A) The rate and method of waste application to the treatment zone;
 - (B) Measures to control soil pH;
 - (C) Measures to enhance microbial or chemical reactions (e.g., fertilization, tilling); and
 - (D) Measures to control the moisture content of the treatment zone.
- (2) The owner or operator must design, construct, operate, and maintain the treatment zone to minimize run-off of hazardous constituents during the active life of the land treatment unit.
- (3) The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the treatment zone during peak discharge from at least a 100-year storm.
- (4) The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume from active portions resulting from a 24-hour, 100-year storm.
- (5) Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain the design capacity of the system.
- (6) If the treatment zone contains particulate matter which may be subject to wind dispersal, the owner or operator must manage the unit to control wind dispersal.
- (7) The owner or operator must inspect the unit weekly and after storms to detect evidence of:
- (A) Deterioration, malfunctions, or improper operation of run-on and run-off control systems; and
 - (B) Improper functioning of wind dispersal control measures.

§335.172. Closure and Post-Closure Care (Land Treatment Units).

- (a) During the closure period, the owner or operator must:
- (1) continue all operations (including pH control) necessary to maximize degradation, transformation, or immobilization of hazardous constituents within the treatment zone as required under §335.171(1) of this title (relating to Design and Operating Requirements (Land Treatment Units)), except to the extent such measures are inconsistent with paragraph (8) of this subsection;

- (2) continue all operations in the treatment zone to minimize run-off of hazardous constituents as required under §335.171(3) of this title;
 - (3) maintain the run-on control system required under §335.171(3) of this title ;
 - (4) maintain the run-off management system required under §335.171(4) of this title ;
 - (5) control wind dispersal of hazardous waste if required under §335.171(6) of this title;
 - (6) continue to comply with any prohibitions or conditions concerning growth of food-chain crops under 40 Code of Federal Regulations (CFR) §264.276;
 - (7) continue unsaturated zone monitoring in compliance with 40 CFR §264.278, except that soil-pore liquid monitoring may be terminated 90 days after the last application of waste to the treatment zone; and
 - (8) establish a vegetative cover on the portion of the facility being closed at such time that the cover will not substantially impede degradation, transformation, or immobilization of hazardous constituents in the treatment zone. The vegetative cover must be capable of maintaining growth without extensive maintenance.
- (b) For the purpose of complying with 40 CFR §264.115, when closure is completed, the owner or operator may submit to the executive director certification by an independent qualified soil scientist, in lieu of an independent registered professional engineer, that the facility has been closed in accordance with the specifications in the approved closure plan.
- (c) During the post-closure care period, the owner or operator must:
- (1) continue all operations (including pH control) necessary to enhance degradation and transformation and sustain immobilization of hazardous constituents in the treatment zone to the extent that such measures are consistent with other post-closure care activities;

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- (2) maintain a vegetative cover over closed portions of the facility;
 - (3) maintain the run-on control system required under §335.171(3) of this title ;
 - (4) maintain the run-off management system required under §335.171(4) of this title ;
 - (5) control wind dispersal of hazardous waste if required under §335.171(6) of this title;
 - (6) continue to comply with any prohibition or conditions concerning growth of food-chain crops under 40 CFR §264.276; and

(7) continue unsaturated zone monitoring in compliance with 40 CFR §264.278, except that soil-pore liquid monitoring may be terminated 90 days after the last application of waste to the treatment zone.

(d) The owner or operator is not subject to regulation under subsections (a)(8) and (c) of this section if the commission finds that the level of hazardous constituents in the treatment zone does not exceed the background value of those constituents by an amount that is statistically significant when using the test specified in paragraph (3) of this subsection. The owner or operator may submit such a demonstration to the executive director at any time during the closure or post-closure care periods.

(1) The owner or operator must establish background soil values and determine whether there is a statistically significant increase over those values for all hazardous constituents specified in the facility permit under 40 CFR §264.271(b).

(A) Background soil values may be based on a one-time sampling of a background plot having characteristics similar to those of the treatment zone.

(B) The owner or operator must express background values and values for hazardous constituents in the treatment zone in a form necessary for the determination of statistically significant increases under paragraph (3) of this subsection.

(2) In taking samples used in the determination of background and treatment zone values, the owner or operator must take samples at a sufficient number of sampling points and at appropriate locations and depths to yield samples that represent the chemical make-up of soil that has not been affected by solid waste or leakage from the treatment zone, and the soil within the treatment zone, respectively.

(3) In determining whether a statistically significant increase has occurred, the owner or operator must compare the value of each constituent in the treatment zone to the background value for that constituent using a statistical procedure that provides reasonable confidence that constituent presence in the treatment zone will be identified. The owner or operator must use a statistical procedure that:

(A) is appropriate for the distribution of the data used to establish background values; and

(B) provides a reasonable balance between the probability of falsely identifying hazardous constituent presence in the treatment zone and the probability of failing to identify real presence in the treatment zone.

(e) The owner or operator is not subject to regulation under §§335.156 - 335.166 of this title (relating to Applicability of Groundwater Monitoring and Response; Required Programs; Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance

Monitoring Program; and Corrective Action Program); if the commission finds that the owner or operator satisfied subsection (d) of this section and if unsaturated zone monitoring under 40 CFR §264.278 indicates that hazardous constituents have not migrated beyond the treatment zone during the active life of the land treatment unit.

Adopted October 24, 2001

Effective November 15, 2001

§335.173. Design and Operating Requirements (Landfills).

(a) Any landfill that is not covered by subsection (c) of this section or 40 Code of Federal Regulations §265.301(a) must have a liner system for all portions of the landfill (except for existing portions of such landfill). The liner system must have:

(1) A liner that is designed, constructed, and installed to prevent any migration of wastes out of the landfill to the adjacent subsurface soil or groundwater or surface water at anytime during the active life (including the closure period) of the landfill. The liner must be constructed of materials that prevent wastes from passing into the liner during the active life of the facility. The liner must be:

(A) Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(B) Placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(C) Installed to cover all surrounding earth likely to be in contact with the waste or leachate; and

(2) A liner that:

(A) Prevents any migration of wastes out of the landfill to the adjacent subsurface soil or groundwater or surface water at any time prior to the end of the post-closure care period; and

(B) Minimizes the rate of migration of wastes out of the landfill to the adjacent subsurface soil or groundwater or surface water so as not to pose a substantial present or potential hazard to human health and the environment; and

(3) A leachate collection and removal system immediately above the top liner that is designed, constructed, maintained, and operated to collect and remove leachate from the landfill. The commission will specify design and operating conditions in the permit to ensure that the leachate depth

over the liner does not exceed 30 centimeters (one foot). The leachate collection and removal system must be:

(A) Constructed of materials that are:

(i) Chemically resistant to the waste managed in the landfill and the leachate expected to be generated; and

(ii) Of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials, and by any equipment used at the landfill; and

(B) Designed and operated to function without clogging through the scheduled closure of the landfill.

(b) The owner or operator will be exempted from the requirements of subsection (a) of this section if the commission finds, based on a demonstration by the owner or operator, that alternative design and operating practices, together with location characteristics, will prevent the migration of any hazardous constituents (see §335.159 of this title (relating to Hazardous Constituents)) into the groundwater or surface water at any future time. In deciding whether to grant an exemption, the commission will consider:

(1) The nature and quantity of the wastes;

(2) The proposed alternate design and operation;

(3) The hydrogeologic setting of the facility, including the attenuative capacity and thickness of the liners and soils present between the landfill and groundwater or surface water; and

(4) All other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to groundwater or surface water.

(c) The owner or operator of each new landfill unit on which construction commences after January 29, 1992, each lateral expansion of a landfill unit on which construction commences after July 29, 1992, and each replacement of an existing landfill unit that is to commence reuse after July 29, 1992, must comply with 40 CFR §264.301(c) as amended through January 29, 1992, at 57 FedReg 3489.

(d) The executive director may approve alternative design or operating practices to those specified in subsection (c) of this section if the owner or operator demonstrates to the executive director that such design and operating practices, together with location characteristics:

(1) Will prevent the migration of any hazardous constituent into the ground water or surface water at least as effectively as the liners and leachate collection and removal systems specified in subsection (c) of this section; and

(2) Will allow detection of leaks of hazardous constituents through the top liner at least as effectively.

(e) The double liner requirement set forth in subsection (c) of this section may be waived by the Commission for any monofill which contains only hazardous wastes from foundry furnace emission controls or metal casting molding sand, and such wastes do not contain constituents which would render the wastes hazardous for reasons other than the Toxicity Characteristics in 40 CFR §261.24, and is in compliance with either paragraph (1) or (2) of this subsection.

(1) The monofill:

(A) has at least one liner for which there is no evidence that such liner is leaking;

(B) is located more than one-quarter mile from an underground source of drinking water (as that term is defined in §331.2 of this title (relating to Definitions); and

(C) is in compliance with groundwater monitoring requirements of this subchapter.

(2) The owner or operator demonstrates that the monofill is located, designed and operated so as to assure that there will be no migration of any hazardous constituent into groundwater or surface water at any future time.

(f) The owner or operator of any replacement landfill unit is exempt from subsection (c) of this section if:

(1) The existing unit was constructed in compliance with the design standards of §3004(o)(1)(A)(i) and (o)(5) of the Resource Conservation and Recovery Act; and

(2) There is no reason to believe that the liner is not functioning as designed.

(g) The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the landfill during peak discharge from at least a 100-year storm.

(h) The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume from active portions resulting from a 24-hour, 100-year storm.

(i) Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system.

(j) If the landfill contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the landfill to control wind dispersal.

(k) The commission will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied.

Adopted January 30, 1996

Effective February 26, 1996

§335.174. Closure and Post-Closure Care (Landfills).

(a) At final closure of the landfill or upon closure of any cell, the owner or operator must cover the landfill or cell with a final cover designed and constructed to:

- (1) Provide long-term minimization of migration of liquids through the closed landfill;
- (2) Function with minimum maintenance;
- (3) Promote drainage and minimize erosion or abrasion of the cover;
- (4) Accommodate settling and subsidence so that the cover's integrity is maintained;

and

(5) Have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.

(b) After final closure, the owner or operator must comply with all post-closure requirements contained in 40 Code of Federal Regulations (CFR) §§264.117-264.120, including maintenance and monitoring throughout the post-closure care period (specified in the permit under 40 CFR §264.117). The owner or operator must:

(1) Maintain the integrity and effectiveness of the final cover, including making repairs to the cap as necessary to correct the effects of settling, subsidence, erosion, or other events;

(2) Continue to operate the leachate collection and removal system until leachate is no longer detected;

(3) Maintain and monitor the leak detection system in accordance with 40 CFR §§264.301(c)(3)(iv) and (4) and 264.303(c), and comply with all other applicable leak detection system requirements of this subchapter.

(4) Maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of §§335.156-335.166 of this title (relating to Applicability of Groundwater Monitoring and Response; Required Programs; Groundwater Protection Standard; Hazardous Constituents; Concentration Limits; Point of Compliance; Compliance Period; General Groundwater Monitoring Requirements; Detection Monitoring Program; Compliance Monitoring Program; and Corrective Action Program);

(5) Prevent run-on and run-off from eroding or otherwise damaging the final cover;
and

(6) Protect and maintain surveyed benchmarks used in complying with 40 CFR §264.309.

Adopted January 30, 1996

Effective February 26, 1996

§335.175. Special Requirements for Bulk and Containerized Waste.

(a) Bulk or non-containerized liquid waste or waste containing free liquids may be placed in a landfill prior to May 8, 1985, only if before disposal, the liquid waste or waste containing free liquids is treated or stabilized, chemically or physically (e.g., by mixing with a sorbent solid), so that free liquids are no longer present.

(b) Effective May 8, 1985, the placement of bulk or non-containerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.

(c) To demonstrate the absence or presence of free liquids in either a containerized or bulk waste, the following test must be used: Method 9095 (Paint Filter Liquids Test) as described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 40 Code of Federal Regulations (CFR) §260.11 and in §335.30 of this title (relating to Incorporation of References).

(d) Effective November 8, 1985, the placement of any liquid which is not a hazardous waste in a landfill is prohibited unless the owner or operator of such landfill demonstrates to the commission, or the commission determines, that:

(1) The only reasonably available alternative to the placement in such landfill is placement in a landfill or unlined surface impoundment, whether or not permitted or operating under interim status, which contains, or may reasonably be anticipated to contain hazardous waste; and

(2) Placement in such owner or operator's landfill will not present a risk of contamination of any underground source of drinking water (as that term is defined in §331.2 of this title (relating to Definitions)).

(e) Containers holding liquid waste or waste containing free liquids must not be placed in a landfill unless:

- (1) The container is very small, such as an ampule;
- (2) The container is designed to hold free liquids for use other than storage, such as a battery or capacitor; or
- (3) the container is a lab pack as defined in 40 CFR §264.316 and is disposed of in accordance with 40 CFR §264.316.

Adopted October 23, 1996

Effective November 20, 1996

§335.176. Special Requirements for Containers.

Unless they are very small, such as an ampule, containers must be crushed, shredded, or similarly reduced in volume to the maximum extent practical before burial in a landfill.

Adopted

Effective May 28, 1986

§335.177. General Performance Standard.

No person may cause, suffer, allow, or permit the storage, processing, or disposal of hazardous waste in such a manner so as to cause:

- (1) the discharge or imminent threat of discharge of hazardous waste, hazardous or nonhazardous constituents, or any other materials resulting from industrial solid waste activities, including, but not limited to, reaction products, into or adjacent to the waters in the state without specific authorization for such discharge from the Texas Natural Resource Conservation Commission;
- (2) the creation and maintenance of a nuisance; or
- (3) the endangerment of the public health or welfare.

Adopted October 24, 2001

Effective November 15, 2001

§335.178. Cost Estimate for Closure.

In addition to the requirements of 40 Code of Federal Regulations (CFR) §264.142 (excluding 40 CFR §264.142(a)(2)), the closure cost estimate must be based on the costs to the owner or operator of hiring a third party to close the facility. A third party is a party who is neither the parent nor a subsidiary of the owner or operator (see definition of parent corporation in 40 CFR §264.141(d)). Notwithstanding other closure costs, such estimate must also include the costs associated with third party removal,

shipment, off-site, and processing or disposal off-site, and processing or disposal off-site of the following wastes to an authorized storage, processing, or disposal facility:

- (1) maximum inventory of wastes in storage and/or processing units, including, but not limited to, storage surface impoundments, waste piles, tanks, and containers;
- (2) wastes generated as a result of closure activities (e.g. decontamination, removal of liquids from surface impoundments, or waste piles);
- (3) contaminated stormwater; and
- (4) leachate.

Adopted October 24, 2001

Effective November 15, 2001

§335.179. Financial Assurance.

(a) Before a permit may be issued, amended, extended, or renewed for a solid waste facility for storage, processing, or disposal of hazardous waste, the commission shall determine the type or types of financial assurance which may be used by the applicant to comply with applicable regulations.

(b) Before hazardous waste may be stored, processed, or disposed of at a solid waste facility subject to this subchapter, the permittee must:

(1) establish financial assurance for the amount of the closure cost estimate in a manner that meets the requirements of Chapter 37, Subchapter P of this title (relating to Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities), in addition to the requirements specified in §335.152(a)(6) of this title (relating to Standards); and

(2) establish financial assurance for the amount of the post closure cost estimate in a manner that meets the requirements of Chapter 37, Subchapter P of this title, in addition to the requirements specified in §335.152(a)(6) of this title, if the facility:

(A) includes a disposal facility;

(B) includes a pile, and/or surface impoundment from which the owner or operator intends to remove the wastes at closure, to the extent that these sections are made applicable to such facilities in §335.169 of this title (relating to Closure and Post-Closure Care (Surface Impoundments)) and 40 Code of Federal Regulations, §264.258;

(C) includes a tank system that is required under §335.152 of this title, to meet the requirements for landfills;

(D) includes a containment building that is required under §335.152 of this title, to meet the requirements for landfills; or

(E) is notified by the executive director of the need for post closure financial assurance for another type of unit.

(c) Before hazardous waste may be stored, processed, or disposed of at a solid waste facility or a group of such facilities subject to this subchapter, the owner or operator must establish financial assurance for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities in a manner that meets the requirements of Chapter 37 of this title (relating to Financial Assurance).

(d) Before hazardous waste may be stored, processed, or disposed of at a solid waste facility containing a hazardous waste surface impoundment, landfill, land treatment facility, or disposal miscellaneous unit used to manage hazardous waste or a group of such facilities subject to this subchapter, the owner or operator must establish financial assurance for nonsudden liability coverage for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities in a manner that meets the requirements of Chapter 37 of this title.

(e) If the executive director determines that there is a significant risk to human health and the environment from nonsudden accidental occurrences resulting from the operations of a facility that is not a surface impoundment, landfill, or land treatment facility, the owner or operator may be required to comply with subsection (d) of this section.

Adopted February 24, 2000

Effective March 24, 2000

§335.180. Impact of New Hazardous Waste Management Facilities on Local Land Use.

In evaluating an application for a new hazardous waste management facility permit, the commission shall assess the impact of the proposed facility on local land use in the area, including any relevant land use plans in existence before publication of the notice of intent to file a solid waste permit application, or, if no notice of intent is filed, at the time the permit application is filed.

(1) In determining whether a new hazardous waste management facility is compatible with local land use, the commission shall consider, at a minimum:

- (A) the location of industrial and other waste-generating facilities in the area;
- (B) the amounts of hazardous waste generated by those facilities;
- (C) the risks associated with the transportation of hazardous waste to the facility; and

(D) compatibility of the application with any land use plan adopted pursuant to the Texas Local Government Code, Chapter 211 (Vernon's Supplement 1991) or with local planning, zoning or land use laws and ordinances, in existence before publication of the notice of intent to file a solid waste permit application, or, if no notice of intent is filed, at the time the permit application is filed.

(2) In addition, the commission may consider any of the following criteria in determining compatibility of a facility with local land use:

(A) the risk of fires or explosions from improper storage and disposal methods;

(B) the distance from the site boundary to existing structures; and

(C) location of the facility in relation to high-hazard areas such as 100-year hurricane flood zones.

(3) Based on its assessment of the application with respect to local land use, the commission may deny an application in accordance with §305.66(i) of this title (relating to Revocation and Suspension) or impose permit conditions deemed necessary to minimize or mitigate detrimental impacts on local land use, in accordance with §305.148 of this title (relating to impact of New Hazardous Waste Management Facilities on Local Land Use).

Adopted

Effective November 7, 1991

§335.181. Need for Specific Commercial Hazardous Waste Management Technologies.

In evaluating an application for a new commercial hazardous waste management facility permit, the commission shall determine the need for the specific technology proposed in the facility to manage new or increased volumes of waste generated in the state, in accordance with Texas Health and Safety Code, §361.0232.

Adopted October 24, 2001

Effective November 15, 2001

§335.182. Burden on Public Roadways by a New Commercial Hazardous Waste Management Facility.

In evaluating an application for a new commercial hazardous waste management facility permit, if the commission determines that a burden on public roadways will be imposed by the new commercial hazardous waste management facility, the commission shall require the applicant to pay the cost of the improvements necessary to minimize or mitigate the burden. The standards by which the commission shall make such a determination may include, but are not limited to, the requirements found in any of the following:

- (1) Policy on Geometric Design of Highways and Streets, published by the American Association of State Highways and Transportation Officials (1990);
- (2) Texas Manual on Uniform Traffic Control Devices;
- (3) Highway Capacity Manual, published by the National Highway Institute;
- (4) Highway Design Division and Procedures Manual, published by the Texas Department of Highways and Public Transportation; and
- (5) Texas Flexible Pavement Design System.

Adopted

Effective November 7, 1991

§335.183. Emergency Response Capabilities Required for New Commercial Hazardous Waste Management Facilities.

(a) In evaluating an application for a new commercial hazardous waste management facility permit, the commission shall verify that:

- (1) sufficient emergency response capabilities are available or will be available before the facility first receives waste, in the area in which the facility is located or proposed to be located; or
- (2) the applicant has secured sufficient financial assurance in accordance with §305.50(12)(C)(ii) or (D) of this title (relating to Additional Requirements for an Application for a Solid Waste Permit) to fund the emergency response personnel and equipment determined to be necessary by the commission, to manage a reasonable worst-case emergency condition associated with the operation of the facility.

(b) If the applicant for a new commercial hazardous waste management facility intends to use emergency response facilities that are not provided by the county or municipality in which the facility is located, the applicant must provide its own facilities or contract for emergency response facilities with an adjoining county, municipality, mutual aid association, or other appropriate entity. An appropriate entity would be defined as a professional organization, existing at the time of application, regularly doing business in the area of emergency and/or disaster response.

(c) If financial assurance is required pursuant to this section, it shall meet the following requirements:

- (1) The financial assurance must benefit the county government or municipal government in the county in which the facility is located or proposed to be located, or both;
- (2) The financial assurance must provide payment of the amount of the bond or other instrument to the governmental body or governmental bodies before the facility first receives waste,

with a limitation that the money can only be spent for emergency response personnel and equipment; and

(3) The financial assurance must meet the requirements of §305.50(12)(C)(ii) or (D).

(d) In evaluating the sufficiency of emergency response capabilities, the commission shall consider the following:

(1) geology of the area;

(2) drainage patterns;

(3) seasonally prevailing winds and weather patterns;

(4) availability of all local emergency response resources, including fire, police hospital, etc. service;

(5) proximity of human exposure and/or sensitive environmental receptors;

(6) length of time for first response;

(7) trained response teams on-site (OSHA Specialist level), with a 24-hour response team;

(8) the amount of equipment and trained personnel available on a first-response basis, including the minimum amount of equipment on hand or available near the facility with hazardous materials capabilities;

(9) the ability to deal with various types of injuries;

(10) the ability to respond effectively to environmental contamination; and

(11) the efficiency and safety of any evacuation plan submitted by the applicant.

Adopted

Effective November 7, 1991

**SUBCHAPTER H: STANDARDS FOR THE MANAGEMENT OF SPECIFIC WASTES
AND SPECIFIC TYPES OF FACILITIES**

§§335.211 - 335.214, 335.221 - 335.225, 335.241, 335.251, 335.261, 335.262, 335.271, 335.272

**DIVISION 1: RECYCLABLE MATERIALS USED IN A MANNER CONSTITUTING
DISPOSAL**

§§335.211 - 335.214
Effective April 12, 2001

§335.211. Applicability.

(a) The regulations of §§335.211-335.214 of this title (relating to Recyclable Materials Used in a Manner Constituting Disposal) apply to recyclable materials that are applied to or placed on the land:

(1) without mixing with any other substance(s);

(2) after mixing or combination with any other substance(s). These materials will be referred to throughout this subpart as "materials used in a manner that constitutes disposal."

(b) Products produced for the general public's use that are used in a manner that constitutes disposal and that contain recyclable materials are not presently subject to regulation if the recyclable materials have undergone a chemical reaction in the course of producing the product so as to become inseparable by physical means and if such products meet the applicable treatment standards in 40 Code of Federal Regulations, Subpart D of Part 268 (or applicable prohibition levels in §268.32 or RCRA §3004(d), where no treatment standards have been established) for each recyclable material (i.e. hazardous waste) that they contain. Commercial fertilizers that are produced for the general public's use that contain recyclable materials also are not presently subject to regulation provided they meet these same treatment standards or prohibition levels for each recyclable material that they contain. However, zinc-containing fertilizers using hazardous waste K061 that are produced for the general public's use are not presently subject to regulation.

(c) Anti-skid/deicing uses of slags, which are generated from high temperature metals recovery (HTMR) processing of hazardous waste K061, K062, and F006, in a manner constituting disposal are not covered by the exemption in subsection (b) of this section and remain subject to regulation.

Adopted September 4, 1998

Effective October 19, 1998

§335.212. Standards Applicable to Generators and Transporters of Materials Used in a Manner That Constitutes Disposal.

Generators and transporters of materials that are used in a manner that constitutes disposal are subject to the applicable requirements of Subchapter A of this chapter (relating to Industrial Solid

Waste and Municipal Hazardous Waste Management in General), Subchapter C of this chapter (relating to Standards Applicable to Generators of Hazardous Waste) and Subchapter D of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste), and the notification requirement under §335.6 of this title (relating to Notification Requirements).

Effective May 28, 1986

§335.213. Standards Applicable to Storers of Materials That Are To Be Used in a Manner That Constitutes Disposal Who Are Not the Ultimate Users.

Owners or operators of facilities that store recyclable materials that are to be used in a manner that constitutes disposal, but who are not the ultimate users of the materials, are regulated under all applicable provisions of Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General), Subchapter B of this chapter (relating to Hazardous Waste Management-General Provisions), Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits), and the notification requirement under §335.6 of this title (relating to Notification Requirements).

Adopted September 4, 1998

Effective October 19, 1998

~~§335.214. Standards Applicable to Users of Materials That Are Used in a Manner That Constitutes Disposal.~~

(a) Owners or operators of facilities that use recyclable materials in a manner that constitutes disposal are regulated under all applicable provisions of Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General), Subchapter B of this chapter (relating to Hazardous Waste Management-General Provisions), Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), Subchapter O of this chapter (relating to Land Disposal Restrictions), Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title

(relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings; Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); Chapter 305 of this title (relating to Consolidated Permits), and the notification requirement under §335.6 of this title (relating to Notification Requirements). These requirements do not apply to products which contain these recyclable materials under the provisions of §335.211(b) of this title (relating to Applicability).

(b) The use of waste or used oil or other material, which is contaminated with dioxin or any other hazardous waste (other than a waste identified solely on the basis of ignitability), for dust suppression or road treatment is prohibited.

Adopted September 4, 1998

Effective October 19, 1998

DIVISION 2: HAZARDOUS WASTE BURNED FOR ENERGY RECOVERY

§§335.221 - 335.225

Effective November 15, 2001

§335.221. Applicability and Standards.

(a) The following regulations contained in 40 Code of Federal Regulations (CFR) Part 266 (including all appendices to Part 266) are adopted by reference, as amended and adopted in the CFR through November 19, 1999 (64 FR 63209), except as noted in this section:

(1) §266.100 -- Applicability, except §266.100(c);

(A) reference to “§266.212” is changed to “§266.112”; and

(B) reference to “the applicable requirements of subparts A through H, BB and CC of parts 264 and 265 of this chapter” is changed to “the applicable requirements of §§335.111 of this title (relating to Purpose, Scope and Applicability), 335.112(a)(1) - (7), (20), and (21) of this title (relating to Standards), 335.151 of this title (relating to Purpose, Scope and Applicability), and 335.152(a)(1) - (6), (18), and (19) of this title (relating to Standards);

(2) §266.102(a) -- Permit Standards for Burners - Applicability, excepting those portions of §266.102(a) containing references to §§264.56(d), 264.71-264.72, 264.75-264.77, 264.90, 264.101, and 264.142(a)(2);

(3) §266.102(b) -- Permit Standards for Burners -Hazardous Waste Analysis;

(4) §266.102(c) -- Permit Standards for Burners - Emission Standards;

(5) §266.102(d) -- Permit Standards for Burners - Permits;

(6) §266.102(e) -- Permit Standards for Burners - Operating Requirements;

(7) §266.103 (a)(1)-(3) -- Interim Status Standards for Burners - Purpose, Scope, and Applicability -- General; Exemptions; and Prohibition on Burning Dioxin-Listed Wastes, respectively, except §§266.103(a)(1)(iii) and 266.103(a)(2);

(8) §266.103(a)(4) -- Interim Status Standards for Burners -- Purpose, Scope, and Applicability -- Applicability of Part 265 Standards, excepting those portions of §266.103(a)(4) containing references to §§265.56(d), 265.71 - 265.72, 265.75 - 265.77, 265.142(a)(2); facilities qualifying for a corporate guarantee for liability are subject to §265.147(g)(2) and §264.151(h)(2), as amended;

(9) §266.103(a)(5) - (6) -- Interim Status Standards for Burners - Purpose, Scope, and Applicability: Special Requirements for Furnaces; and Restrictions on Burning Hazardous Waste That is Not a Fuel;

(10) §266.103(b) -- Interim Status Standards for Burners - Certification of Precompliance, except §§266.103(b)(1) and (6);

(11) §266.103(c) -- Interim Status Standards for Burners - Certification of Compliance, except §266.103(c)(3)(i);

(12) §266.103(f) -- Interim Status Standards for Burners - Start-Up and Shut-Down;

(13) §266.103(g)(1) - (2) -- Interim Status Standards for Burners - Automatic Waste Feed Cutoff;

(14) §266.103(h) - (l) -- Interim Status Standards for Burners: Fugitive Emissions; Changes; Monitoring and Inspections; Recordkeeping; and Closure, respectively.

✓ (15) §266.104 -- Standards to Control Organic Emissions, except §266.104(h);

(16) §266.105 - Standards to Control Particulate Matter, except §266.105(d);

(17) §266.106 -- Standards to Control Metals Emissions, except §266.106(i);

(18) §266.107 -- Standards to Control Hydrogen Chloride (HCl) and Chlorine Gas (Cl₂) Emissions, except §266.107(h);

(19) §266.108 -- Small Quantity On-Site Burner Exemption, except §266.108(d), and except that hazardous wastes subject to §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated By Conditionally Exempt Small Quantity Generators) may not be burned in an off-site device under the exemption provided by §266.108;

(20) §266.109 -- Low-Risk Waste Exemption;

(21) §266.110 -- Waiver of DRE Trial Burn for Boilers;

(22) §266.111 -- Standards for Direct Transfer; and

(23) §266.112 -- Regulation of Residues.

✓ (b) The following hazardous wastes and facilities are not regulated under this division :

(1) used oil burned for energy recovery that is also a hazardous waste solely because it exhibits a characteristic of hazardous waste identified in 40 CFR Part 261, Subpart C, from use versus mixing. Such used oil is subject to regulation by the EPA under 40 CFR Part 279 and Chapter 324 of

this title (relating to Used Oil). This exception does not apply if the used oil has been made hazardous by mixing with characteristic or listed hazardous waste other than by a CESQG or household generator;

(2) hazardous wastes that are exempt from regulation under the provisions of 40 CFR §261.4, and §335.24(c)(3) - (4) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials), and hazardous wastes that are subject to the special requirements for conditionally exempt small quantity generators under the provisions of §335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators);

(3) gas recovered from hazardous or solid waste landfills when such gas is burned for energy recovery; and

(4) coke ovens, if the only hazardous waste burned is EPA Hazardous Waste No. K087, decanter tank tar sludge from coking operations.

Adopted October 24, 2001

Effective November 15, 2001

§335.222. Management Prior To Burning.

(a) Generators. Generators of hazardous waste that is burned in a boiler or industrial furnace are subject to the requirements of Subchapter C of this chapter (relating to Standards Applicable to Generators of Hazardous Waste).

(b) Transporters. Transporters of hazardous waste that is burned in a boiler or industrial furnace are subject to the requirements of Subchapter D of this chapter (relating to Standards Applicable to Transporters of Hazardous Waste).

(c) Storage and processing facilities. The provisions listed under paragraph (1) of this subsection apply to storage or processing by burners and by intermediaries such as processors, blenders, and distributors between the generator and the burner.

~~(1) Owners and operators of facilities that store or process hazardous waste that is~~
burned in a boiler or industrial furnace are subject to the applicable provisions of the following, except as provided by paragraph (2) of this subsection:

(A) Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General);

(B) Subchapter B of this chapter (relating to Hazardous Waste Management General Provisions);

(C) Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), except §335.112(a)(12) -(19) of this title (relating to Standards);

(D) Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities, except §335.152(11) - (16) of this title (relating to Standards);

(E) Chapter 305 of this title (relating to Consolidated Permits).

(2) Owners and operators of facilities that burn, in an on-site boiler or industrial furnace exempt from regulations under the small quantity burner provisions of 40 Code of Federal Regulations §266.108, only hazardous waste that they generate are exempt from regulation under the provisions listed above in paragraph (1) of this subsection applicable to storage units for those units that store mixtures of hazardous waste and the primary fuel to the boiler or industrial furnace in tanks that feed the fuel mixture directly to the burner. Storage or processing of hazardous waste by such owners and operators prior to mixing with the primary fuel is subject to regulation as prescribed in paragraph (1) of this subsection.

Adopted October 24, 2001

Effective November 15, 2001

§335.223. Additional Permit Standards for Burners.

(a) In addition to the permit standards for burners under §335.221(a)(2)-(6) of this title (relating to Applicability and Standards), owners and operators of boilers and industrial furnaces that burn hazardous waste are subject to the following provisions, including the applicable provisions of Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General) and Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing or Disposal Facilities), as follows:

(1) §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities);

(2) §335.15 of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities);

(3) §335.153 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator);

(4) §335.154 of this title (relating to Reporting Requirements for Owners and Operators);

(5) §335.155 of this title (relating to Additional Reports);

(6) §335.156 of this title (relating to Applicability of Groundwater Monitoring and Response);

(7) §335.167 of this title (relating to Corrective Action for Solid Waste Management Units);

(8) §335.178 of this title (relating to Cost Estimate for Closure); and

(b) For the purposes of permit enforcement, compliance with the operating requirements specified in the permit, pursuant to 40 Code of Federal Regulations (CFR) §266.102, §335.221 (a)(1)-(6) of this title (relating to Applicability and Standards), and subsections (a)-(1)-(8) of this section, will be regarded as compliance with 40 CFR §§266.104 - 266.107. However, evidence that compliance with those permit conditions is insufficient to ensure compliance with the requirements of 40 CFR §§266.104 - 266.107 may be "good cause" for justifying suspension or revocation of a permit under §305.66 of this title (relating to Permit Denial, Suspension, and Revocation) or may be "good cause" for amendment of the permit under §305.62(d)(2) of this title (relating to Amendment).

Effective July 29, 1992

§335.224. Additional Interim Status Standards for Burners.

In addition to the interim status standards for burners under §335.221(a)(7) - (14) of this title (relating to Applicability and Standards), owners and operators of "existing" boilers and industrial furnaces that burn hazardous waste are subject to the following provisions, including the applicable provisions of Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General) and Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), as follows:

(1) If a boiler or industrial furnace is located at a facility that already has a permit or interim status, then the owner or operator must comply with the applicable rules and regulations dealing with permit amendments or modifications under Chapter 305 of this title (relating to Consolidated Permits) and 40 Code of Federal Regulations (CFR) §270.42, or revisions of applications for hazardous waste permits and changes during interim status under Chapter 305 of this title and 40 CFR §270.72.

(2) The requirements of this section and §335.221(a)(7) - (14) of this title do not apply to hazardous wastes and facilities exempt under §335.221(b) of this title or exempt under 40 CFR §266.108, as adopted under §335.221(a)(19) of this title.

(3) Owners and operators of existing boilers and industrial furnaces that burn hazardous waste are subject to the following provisions:

(A) §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities);

(B) §335.15 of this title (relating to Recordkeeping and Reporting Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities);

(C) §335.113 of this title (relating to Reporting of Emergency Situations by Emergency Coordinator);

(D) §335.114 of this title (relating to Reporting Requirements);

(E) §335.115 of this title (relating to Additional Reports);

(F) §335.127 of this title (relating to Cost Estimate for Closure);

(4) The owner or operator must provide complete and accurate information specified in 40 CFR §266.103(b)(2) to the executive director on or before August 21, 1992, and must establish limits for the operating parameters specified in 40 CFR §266.103(b)(3). Such information is termed a "certification of precompliance" and constitutes a certification that the owner or operator has determined that, when the facility is operated within the limits specified in 40 CFR §266.103(b)(3), the owner or operator believes that, using best engineering judgment, emissions of particulate matter, metals, HCl and Cl₂ are not likely to exceed the limits provided under 40 CFR §§266.105, 266.106, and 266.107. The facility may burn hazardous waste only under the operating conditions that the owner or operator establishes under 40 CFR §266.103(b)(3) until the owner or operator submits a revised certification of precompliance under 40 CFR §266.103(b)(8) or a certification of compliance under 40 CFR §266.103(c), or until a permit is issued.

(5) On or before August 21, 1992, the owner or operator must submit a notice for publication in a newspaper regularly published, and generally circulated within the county and area wherein the facility is located and send a copy of the notice of those persons and entities listed under §305.103(b)(2) - (12) of this title (relating to Notice by Mail). The owner and operator must provide to the executive director, with the certification of precompliance, evidence of submittal of the notice for publication. The public notice requirements of this subsection do not apply to recertifications under 40 CFR §266.103(b)(8). The notice shall be entitled "Notice of Certification of Precompliance with Hazardous Waste Burning Requirements of 40 Code of Federal Regulations §266.103(b) and 30 TAC §335.224(4) and (5)." An owner or operator who satisfied the public notice requirements under 40 CFR §266.103(b)(6) will be considered compliant with this paragraph provided that the owner or operator submits evidence of such public notice on or before 30 days after the effective date of this paragraph. The notice shall include:

(A) name and address of the owner and operator of the facility as well as the location of the device burning hazardous waste;

(B) date that the certification of precompliance was submitted to the executive director;

(C) brief description of the regulatory process required to comply with the interim status requirements of this section, §335.221(a)(7) - (14) of this title, and 40 CFR §266.103, including required emissions testing to demonstrate conformance with emissions standards for organic compounds, particulate matter, metals, and HCl and Cl₂;

(D) types and quantities of hazardous waste burned including, but not limited to, source(s), whether solids or liquids, as well as an appropriate description(s) of the waste(s);

(E) type of device(s) in which the hazardous waste is burned including a physical description and maximum production rate of each device;

(F) types and quantities per year of other fuels and industrial furnace feedstocks fed to each unit;

(G) brief description of the basis for this certification of precompliance as specified in 40 CFR §266.103(b)(2);

(H) locations where the record for the facility can be viewed and copied by interested parties. These records and locations shall at a minimum include:

(i) The administrative record kept by the local Texas Natural Resource Conservation Commission regional office; and

(ii) The BIF correspondence file kept at the facility site where the device is located. The correspondence file must include all correspondence between the facility and the Regional Director of the EPA, state and local regulatory officials, including copies of all certifications and notifications, such as the precompliance certification, precompliance public notice, notice of compliance testing, compliance test report, compliance certification, time extension requests and approvals or denials, enforcement notifications of violations, and copies of EPA and state site visit reports submitted to the owner or operator.

(I) notification of the establishment by the facility owner or operator of a facility mailing list whereby interested parties shall notify the facility owner or operator that they wish to be placed on the mailing list to receive future information and notices about this facility; and

(J) location (mailing address) of the local Texas Natural Resource Conservation Commission (TNRCC) regional office, where further information can be obtained on TNRCC regulation of hazardous waste burning.

(6) On or before August 21, 1992, the owner or operator shall conduct emissions testing to document compliance with the emissions standards of 40 CFR §§266.103(a)(5)(i)(D), 266.104(b) - (e), and 266.105 - 266.107, under the procedures prescribed by this paragraph and paragraphs (7) and (8) of this section and 40 CFR §266.103(c), except under extensions of time provided by 40 CFR §266.103(c)(7). Based on the compliance test, the owner or operator shall submit to the executive director a complete and accurate "certification of compliance," in accordance with 40 CFR §266.103(c)(4), with those emission standards establishing limits on the operating parameters specified in 40 CFR §266.103(c)(1). In accordance with paragraphs (12) and (13) of this section, the executive director may reject the certification of compliance or require additional information to be submitted within specified time frames.

(7) Compliance testing must be conducted under conditions for which the owner or operator has submitted a certification of precompliance under 40 CFR §266.103(b) and paragraphs (4) - (5) of this section, and under conditions established in the notification of compliance testing required by 40 CFR §266.103(c)(2). The owner and operator may seek approval on a case-by-case basis to use compliance test data from one unit in lieu of testing a similar on-site unit. To support the request, the

owner or operator must provide a comparison of the hazardous waste burned and other feedstreams, and the design, operation, and maintenance of both the tested unit and the similar unit. The director shall provide a written approval to use compliance test data in lieu of testing a similar unit if he finds that the hazardous wastes, the devices, and the operating conditions are sufficiently similar, and the data from the other compliance test is adequate to meet the requirements of §266.103(c).

(8) If the owner or operator chooses to submit a revised certification of compliance (recertification of compliance) under 40 CFR §266.103(c)(8), or if the owner or operator is required to submit a recertification of compliance under paragraphs (9) or (11) of this section, then the owner or operator shall submit the recertification of compliance to the executive director under the procedures in 40 CFR §266.103(c)(8)(i) - (iv). In accordance with paragraphs (12) and (13) of this section, the executive director may reject the recertification of compliance or require additional information to be submitted within specified time frames.

(9) The owner or operator must conduct compliance testing and submit to the executive director a recertification of compliance under the provisions of paragraph (8) of this section and 40 CFR §266.103(c), within 150 days of rejection by the executive director under this paragraph and paragraphs (6) and (8) of this section. In accordance with paragraphs (12) and (13) of this section, the executive director may reject the recertification of compliance or require additional information to be submitted within specified time frames. Except for the activities necessary for the owner or operator to conduct the compliance testing in accordance with 40 CFR §266.103(c)(8)(i) - (iv), and except for a rejection by the executive director of a recertification of compliance which was voluntarily submitted by the owner or operator pursuant to paragraph (8) of this section, upon rejection by the executive director and until a subsequent recertification of compliance is approved under paragraph (8) of this section, the owner or operator shall not burn hazardous waste in the unit for which a certification of compliance or recertification of compliance was rejected.

(10) Except for a rejection by the executive director of a recertification of compliance which was voluntarily submitted by the owner or operator pursuant to paragraph (8) of this section, upon receipt of the third rejection by the executive director of a certification of compliance and/or recertification of compliance for the burning of hazardous waste in a boiler or industrial furnace, the owner or operator shall stop burning hazardous waste in the unit for which the certification and/or recertification were rejected, begin closure activities under 40 CFR §266.103(l), and shall not resume the burning of hazardous waste except under an operating permit issued under Chapter 305 of this title (relating to Consolidated Permits);

(11) Notwithstanding any requirement for a recertification under paragraph (9) of this section, the owner or operator must conduct compliance testing and submit to the executive director a recertification of compliance under the provisions of paragraph (8) of this section and 40 CFR §266.103(c) within three years from submitting the previous certification or recertification (excluding recertification(s) submitted under paragraph (9) of this section). If the owner or operator seeks to recertify compliance under new operating conditions, then the owner or operator must comply with the requirements of paragraph (8) of this section. In accordance with paragraphs (12) and (13) of this section, the executive director may reject the recertification of compliance or require additional information to be submitted within specified time frames.

(12) The executive director may reject certifications or recertifications of compliance based on the failure of the owner or operator to meet the substantive requirements under 40 CFR §266.103 or this section, including, but not limited to, the following:

(A) incorrect or inappropriate calculations or other mathematical techniques which lead to significant effects on operating condition limitations;

(B) incorrect or inappropriate sampling, physical measurements, or analysis techniques which lead to significant effects on operating condition limitations;

(C) equipment failure or malfunction during the compliance test which leads to inadequate results or incorrect results which significantly affects the limits on operating conditions;

(D) inappropriate feed rates of waste, raw production materials, and/or fuels which leads to significant effects on operating condition limitations;

(E) failure to operate the compliance test under steady-state conditions; or

(F) other significant deficiencies which, in the opinion of the executive director will lead to endangerment to public health and welfare or insufficient protection of public property or the environment.

(13) The owner or operator may appeal to the commission any rejection of a certification or recertification by the executive director. Owners and operators who appeal to the commission any rejection of a certification or recertification by the executive director may continue operations under the rejected certification or recertification until the rejection is upheld by the commission.

(14) If the owner or operator does not comply with the interim status compliance schedule provided by paragraphs (4) - (6), (9), or (11) of this section, hazardous waste burning must terminate on the date of the deadline, closure activities must begin under 40 CFR §266.103(l), and hazardous waste burning may not resume except under an operating permit issued under Chapter 305 of this title. For purposes of compliance with the closure provisions of paragraph (4) of this subsection and 40 CFR §265.112(d)(2) and §265.113 (as adopted in §335.112(a)(6) of this title (relating to Standards)) the boiler or industrial furnace has received "the known final volume of hazardous waste" on the date that the deadline is missed.

(15) During the compliance test required by paragraph (7) of this section and 40 CFR §266.103(c)(3), and upon certification of compliance under 40 CFR §266.103(c), a boiler or industrial furnace must be operated with a functioning system that automatically cuts off the hazardous waste feed when the applicable operating conditions specified in 40 CFR §266.103(c)(1)(i) and (v) - (xiii) deviate from those established in the certification of compliance, and the boiler or industrial furnace must be operated in accordance with 40 CFR §266.103(g)(1) - (2).

§335.225. Additional Standards for Direct Transfer.

(a) The requirements of this section and 40 Code of Federal Regulations (CFR) §266.111, adopted by reference at §335.221(a)(22) of this title (relating to Applicability and Standards), apply to owners and operators of boilers and industrial furnaces subject to 40 CFR §266.102 or §266.103, if hazardous waste is directly transferred from a transport vehicle to a boiler or industrial furnace without the use of a storage unit.

(b) The direct transfer of hazardous waste to a boiler or industrial furnace shall be conducted so that it does not adversely affect the capability of the boiler or industrial furnace to meet required standards.

Adopted October 24, 2001

Effective November 15, 2001

**DIVISION 3: RECYCLABLE MATERIALS UTILIZED
FOR PRECIOUS METAL RECOVERY**

§335.241

Effective November 15, 2001

§335.241. Applicability and Requirements.

(a) The regulations of this section apply to recyclable materials that are reclaimed to recover economically significant amounts of gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these.

(b) Persons who generate, transport, or store recyclable materials that are regulated under this section are subject to the following requirements:

(1) §335.4 of this title (relating to General Prohibitions);

(2) §335.6 of this title (relating to Notification Requirements);

(3) §§335.9 - 335.12 of this title (relating to Shipping and Reporting Procedures Applicable to Generators; Shipping and Reporting Procedures Applicable to Generators of Municipal Hazardous Waste or Class 1 Industrial Solid Waste; Shipping Requirements for Transporters of Municipal Hazardous Waste or Class 1 Industrial Solid Waste; Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities), for generators, transporters, or persons who store, as applicable; and

(4) For precious metals exported to or imported from designated OECD member countries for recovery, 40 Code of Federal Regulations (CFR) Part 262, Subpart H and §265.12(a). For precious metals exported to or imported from non-OECD countries for recovery, §335.13 of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste and §335.76 of this title (relating to Additional Requirements Applicable to International Shipments).

(c) Persons who store recyclable materials that are regulated under this section shall keep the following records to document that they are not accumulating these materials speculatively, as defined in §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials):

(1) records showing the volume of these materials stored at the beginning of the calendar year;

(2) the amount of these materials generated or received during the calendar year; and

(3) the amount of materials remaining at the end of the calendar year.

(d) Recyclable materials that are regulated under this section that are accumulated speculatively, as defined in §335.17 of this title (relating to Special Definitions for Recyclable Materials and Nonhazardous Recyclable Materials), are subject to all applicable provisions of this chapter (excluding this subchapter), Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); and Chapter 305 of this title (relating to Consolidated Permits).

Adopted October 24, 2001

Effective November 15, 2001

DIVISION 4: SPENT LEAD-ACID BATTERIES BEING RECLAIMED

§335.251

October 19, 1998

§335.251. Applicability and Requirements.

(a) The regulations of this section apply to persons who reclaim (including regeneration) spent lead-acid batteries that are recyclable materials (spent batteries). Persons who generate, transport, or collect spent batteries, who regenerate spent batteries, who store spent batteries that are to be regenerated, or who store spent batteries but do not reclaim them (other than spent batteries that are to be regenerated), are not subject to regulation under this chapter, except that §335.24(h) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) applies; and are not subject to regulation under Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings); Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings); Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); or Chapter 305 of this title (relating to Consolidated Permits). Such persons, however, remain subject to the requirements of the Texas Water Code, Chapter 26.

(b) Owners or operators of facilities that store spent lead-acid batteries before reclaiming them (other than spent batteries that are to be regenerated) are subject to the following requirements:

(1) All applicable provisions in Subchapter A of this chapter (relating to Industrial Solid Waste and Municipal Hazardous Waste Management in General), Subchapter B of this chapter (relating to Hazardous Waste Management-General Provisions), Subchapter E of this chapter (relating to Interim Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities) and Subchapter F of this chapter (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), except for the requirements in §335.12 of this title (relating to Shipping Requirements Applicable to Owners or Operators of Storage, Processing, or Disposal Facilities) and 40 Code of Federal Regulations §265.13; and

(2) all applicable provisions in Chapter 1 of this title (relating to Purpose of Rules, General Provisions); Chapter 3 of this title (relating to Definitions); Chapter 10 of this title (relating to Commission Meetings); Chapter 20 of this title (relating to Rulemaking); Chapter 37 of this title (relating to Financial Assurance); Chapter 39 of this title (relating to Public Notice); Chapter 40 of this title (relating to Alternative Dispute Resolution); Chapter 50 of this title (relating to Actions on Applications); Chapter 55 of this title (relating to Request for Contested Case Hearings); Chapter 70 of this title (relating to Enforcement); Chapter 80 of this title (relating to Contested Case Hearings);

Chapter 86 of this title (relating to Special Provisions for Contested Case Hearings; Chapter 261 of this title (relating to Introductory Provisions); Chapter 277 of this title (relating to Use Determinations for Tax Exemption for Pollution Control Property); and Chapter 305 of this title (relating to Consolidated Permits).

Adopted September 4, 1998

Effective October 19, 1998

DIVISION 5: UNIVERSAL WASTE RULE

§335.261, §335.262

Effective November 15, 2001

✓ §335.261. Universal Waste Rule.

(a) This section establishes requirements for managing universal wastes as defined in this section, and provides an alternative set of management standards in lieu of regulation, except as provided in this section, under all otherwise applicable chapters under Title 30 Texas Administrative Code. Except as provided in subsection (b) of this section, Title 40 Code of Federal Regulations (CFR) Part 273 is adopted by reference as amended and adopted through July 6, 1999 at 64 FedReg 36466.

✓ (b) Title 40 CFR Part 273, except §273.1, is adopted subject to the following changes:

(1) The term "regional administrator" is changed to "executive director" or "commission" consistent with the organization of the commission as set out in the Texas Water Code, Chapter 5.

(2) The terms "U.S. Environmental Protection Agency" and "EPA" are changed to "the Texas Natural Resource Conservation Commission," "the agency," or "the commission" consistent with the organization of the commission as set out in the Texas Water Code, Chapter 5. This paragraph does not apply to 40 CFR §273.32(a)(3) or §273.52 or to references to the following: "EPA Acknowledgment of Consent" or "EPA Identification Number."

(3) The term "treatment" is changed to "processing."

(4) The term "universal waste" is changed to "universal waste as defined under §335.261(b)(16)(F) of this title (relating to Universal Waste Rule)."

(5) The term "this part" is changed to "Chapter 335, Subchapter H, Division 5 of this title (relating to Universal Waste Rule)."

(6) In 40 CFR §273.2(a) and (b), references to "40 CFR part 266, subpart G," are changed to "§335.251 of this title (relating to Applicability and Requirements)."

(7) In 40 CFR §273.2(b)(2), the reference to "part 261 of this chapter" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(8) In 40 CFR §273.3(b)(1), the reference to "40 CFR 262.70" is changed to "§335.77 of this title (relating to Farmers)." Also, the phrase "(40 CFR 262.70 addresses pesticides disposed of on the farmer's own farm in a manner consistent with the disposal instructions on the pesticide label, providing the container is triple rinsed in accordance with 40 CFR 261.7(b)(3))" is deleted.

(9) In 40 CFR §273.3(b)(2), the reference to "40 CFR parts 260 through 272" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(10) In 40 CFR §273.3(b)(3), the reference to "part 261 of this chapter" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(11) In 40 CFR §273.3(d)(1)(i) and (ii), references to "40 CFR 261.2" are changed to "§335.1 of this title (relating to Definitions)."

(12) In 40 CFR §273.4(a), the reference to "§273.9" is changed to "§335.261(b)(16)(E) of this title (relating to Universal Waste Rule)" and in 40 CFR §273.4(b)(1), the reference to "part 261 of this chapter" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(13) In 40 CFR 273.5(b)(1), the reference to "part 261 of this chapter" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(14) In 40 CFR §273.8(a)(1), the reference to "40 CFR 261.4(b)(1)" is changed to "§335.1 of this title (relating to Definitions)" and the reference to "§273.9" is changed to "§335.261(b)(16)(F) of this title (relating to Universal Waste Rule)."

(15) In 40 CFR §273.8(a)(1), the reference to "40 CFR 261.5" is changed to "§335.78 of this title (relating to Special Requirements for Hazardous Waste Generated by Conditionally Exempt Small Quantity Generators)" and the reference to "§273.9" is changed to "§335.261(b)(16)(F) of this title (relating to Universal Waste Rule)."

✓(16) In 40 CFR §273.9, the following definitions are changed to the meanings described in this paragraph:

(A) "Destination Facility" means a facility that treats, disposes, or recycles a particular category of universal waste, except those management activities described in 40 CFR §273.13(a) and (c) and 40 CFR §273.33(a) and (c), as adopted by reference in this section. A facility at which a particular category of universal waste is only accumulated is not a destination facility for purposes of managing that category of universal waste;

(B) "Generator" means any person, by site, whose act or process produces hazardous waste identified or listed in 40 CFR Part 261 or whose act first causes a hazardous waste to become subject to regulation;

(C) "Large Quantity Handler of Universal Waste" means a universal waste handler (as defined in this section) who accumulates at any time 5,000 kilograms or more total of universal waste (as defined in this section), calculated collectively. This designation as a large quantity handler of universal waste is retained through the end of the calendar year in which 5,000 kilograms or more total universal waste is accumulated;

(D) "Small Quantity Handler of Universal Waste" means a universal waste handler (as defined in this section) who does not accumulate at any time 5,000 kilograms or more total of universal waste (as defined in this section), calculated collectively;

(E) "Thermostat" means a temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of 40 CFR §273.13(c)(2) or §273.33(c)(2) as adopted by reference in this section; and

(F) "Universal Waste" means any of the following hazardous wastes that are subject to the universal waste requirements of this section:

- (i) batteries as described in 40 CFR §273.2;
- (ii) pesticides as described in 40 CFR §273.3;
- (iii) thermostats as described in 40 CFR §273.4;
- (iv) paint and paint-related waste as described in §335.262(b) of this title (relating to Standards for Management of Paint and Paint-Related Waste); and
- (v) lamps as described in 40 CFR §273.5.

(17) In 40 CFR §273.10, the reference to "40 CFR 273.9" is changed to "§335.261(b)(16)(D) of this title (relating to Universal Waste Rule)."

(18) 40 CFR §273.11(b) is changed to read as follows: "Prohibited from diluting or treating universal waste, except when responding to releases as provided in 40 CFR §273.17; managing specific wastes as provided in 40 CFR §273.13; or crushing lamps under the control conditions of §335.261(e) of this title (relating to Universal Waste Rule)."

(19) In 40 CFR §273.13(a)(3)(i), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(20) In 40 CFR §273.13(c)(2)(iii) and (iv), references to "40 CFR 262.34" are changed to "§335.69 of this title (relating to Accumulation Time)."

(21) In 40 CFR §273.13(c)(3)(ii), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(22) In 40 CFR §273.13(d)(1), the phrase "adequate to prevent breakage" is changed to "adequate to prevent breakage, except as specified in §335.261(e) of this title (relating to Universal Waste Rule)."

(23) In 40 CFR §273.17(b), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(24) In 40 CFR §273.20(a), the reference to "40 CFR 262.53, 262.56(a)(1) through (4), (6), and (b) and 262.57" is changed to "§335.13 of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste) and §335.76 of this title (relating to Additional Requirements Applicable to International Shipments)."

(25) In 40 CFR §273.20(b), the reference to "subpart E of part 262 of this chapter" is changed to "§335.13 of this title and §335.76 of this title."

(26) In 40 CFR §273.30, the reference to "§273.9" is changed to "§335.261(b)(16)(C) of this title (relating to Universal Waste Rule)."

(27) 40 CFR §273.31(b) is changed to read as follows: "Prohibited from diluting or treating universal waste, except when responding to releases as provided in 40 CFR §273.37; managing specific wastes as provided in 40 CFR §273.33; or crushing lamps under the control conditions of §335.261(e) of this title (relating to Universal Waste Rule)."

(28) In 40 CFR §273.33(a)(3)(i), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(29) In 40 CFR §273.33(c)(2)(iii) and (iv), the references to "40 CFR 262.34" are changed to "§335.69 of this title (relating to Accumulation Time)."

(30) In 40 CFR §273.33(c)(3)(ii), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(31) In 40 CFR §273.33(d)(1), the phrase "adequate to prevent breakage" is changed to "adequate to prevent breakage, except as specified in §335.261(e) of this title (relating to Universal Waste Rule)."

(32) In 40 CFR §273.37(b), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(33) In 40 CFR §273.40(a), the reference to "40 CFR 262.53, 262.56(a)(1) through (4), (6), and (b) and 262.57" is changed to "§335.13 of this title (relating to Recordkeeping and Reporting Procedures Applicable to Generators Shipping Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste) and §335.76 of this title (relating to Additional Requirements Applicable to International Shipments)."

(34) In 40 CFR §273.40(b), the reference to "subpart E of part 262 of this chapter" is changed to "§335.13 of this title and §335.76 of this title."

(35) In 40 CFR §273.52(a), the reference to "40 CFR part 262" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(36) In 40 CFR §273.52(b), the reference to "40 CFR part 262" is changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(37) In 40 CFR §273.54(b), the reference to "40 CFR parts 260 through 272" and the reference to "40 CFR part 262" are changed to "Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste)."

(38) In 40 CFR §273.60(a), the reference to "§273.9" is changed to "§335.261(b)(16)(A) of this title (relating to Universal Waste Rule)" and the reference to "parts 264, 265, 266, 268, 270, and 124 of this chapter" is changed to "Title 30 Texas Administrative Code (relating to Environmental Quality)."

(39) In 40 CFR §273.60(b), the reference to "40 CFR 261.6(c)(2)" is changed to "§335.24 of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials)."

(40) In 40 CFR §273.80(a), the reference to "40 CFR 260.20 and 260.23" is changed to "§20.15 of this title (relating to Petition for Adoption of Rules) and §335.261(c) of this title (relating to Universal Waste Rule)."

(41) In 40 CFR §273.80(b), the reference to "40 CFR 260.20(b)" is changed to "§20.15 of this title."

(42) In 40 CFR §273.81(a), the reference to "40 CFR 260.10" is changed to "§335.1 of this title (relating to Definitions) and the reference to "§273.9" is changed to "§335.261(b)(16)(F) of this title (relating to Universal Waste Rule)."

(c) Any person seeking to add a hazardous waste or a category of hazardous waste to the universal waste rule may file a petition for rulemaking under this section, §20.15 of this title, and subpart G of 40 CFR part 273 as adopted by reference in this section.

(1) To be successful, the petitioner must demonstrate to the satisfaction of the commission that regulation under the universal waste rule: is appropriate for the waste or category of waste; will improve management practices for the waste or category of waste; and will improve implementation of the hazardous waste program. The petition must include the information required by §20.15 of this title. The petition should also address as many of the factors listed in 40 CFR §273.81 as are appropriate for the waste or category of waste addressed in the petition.

(2) The commission will grant or deny a petition using the factors listed in 40 CFR §273.81. The decision will be based on the commission's determinations that regulation under the universal waste rule is appropriate for the waste or category of waste, will improve management practices for the waste or category of waste, and will improve implementation of the hazardous waste program.

(3) The commission may request additional information needed to evaluate the merits of the petition.

(d) Any waste not qualifying for management under this section must be managed in accordance with applicable state regulations.

(e) Crushing lamps is permissible only in a crushing system for which the following control conditions are met:

(1) An exposure limit of no more than 0.05 milligrams of mercury per cubic meter is demonstrated through sampling and analysis using Occupational Safety and Health Administration (OSHA) Method ID-140 or National Institute for Occupational Safety and Health Method No. 6009, based on an eight-hour time-weighted average of samples taken at the breathing zone height near the crushing system operating at the maximum expected level of activity;

(2) Compliance with the notification requirements of §106.262 of this title (relating to Facilities (Emission and Distance Limitations) (Previously SE 118)) is demonstrated;

(3) Documentation of the demonstrations under paragraphs (1) and (2) of this subsection is provided in a written report to the executive director; and

(4) The executive director approves the crushing system in writing.

Adopted April 5, 2000

Effective April 30, 2000

✓ **§335.262. Standards for Management of Paint and Paint-Related Waste.**

(a) This section establishes requirements for managing paint and paint-related waste as described in subsection (b) of this section, and provides an alternative set of management standards in lieu of regulation under other portions of this chapter not otherwise referenced under this section.

(b) Paint and paint-related waste is used or unused paint and paint-related material which is "hazardous waste" as defined under §335.1 of this title (relating to Definitions), as determined under §335.504 of this title (relating to Hazardous Waste Determination), and which is any mixture of pigment and a suitable liquid which forms a closely adherent coating when spread on a surface or any material which results from painting activities.

(c) Except as otherwise provided in this section, the following definitions and requirements apply to persons managing paint and paint-related wastes:

(1) Those requirements which apply to universal wastes in general and the definitions under the following regulations, as adopted by reference under §335.261 of this title (relating to Universal Waste Rule): Title 40 Code of Federal Regulations (CFR) §§273.5, 273.6, 273.10 - 273.12, 273.15 - 273.20, 273.30 - 273.32, 273.35 - 273.40, 273.50 - 273.56, 273.60 - 273.62, and 273.70;

(2) In addition to the requirements referenced under paragraph (1) of this subsection, small quantity handlers and large quantity handlers of universal waste must manage paint and paint-related waste in accordance with §335.4 of this title (relating to General Prohibitions). The paint and paint-related waste must be contained in one or more of the following:

(A) a container that remains closed, except when necessary to add or remove waste;

(B) a container that is structurally sound, compatible with the waste, and that lacks evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions; or

(C) a container that does not meet the requirements of subparagraphs (A) and (B) of this paragraph, provided that the unacceptable container is overpacked in a container that does meet the requirements of subparagraphs (A) and (B) of this paragraph; or

(D) a tank that meets the requirements of 40 CFR Part 265, Subpart J, except for 40 CFR §§265.197(c), 265.200, and 265.201; or

(E) a transport vehicle or vessel that is closed, structurally sound, compatible with the waste, and that lacks evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions; and

(F) a container, multiple container package unit, tank, transport vehicle or vessel that is labeled or marked clearly with the words "Universal Waste - Paint and Paint-Related Wastes;" and

(3) For paint and paint-related waste that is ignitable, reactive, or incompatible waste, the applicable requirements under 40 CFR §§265.17, 265.176, and 265.177.

(d) Hazardous waste determinations under subsection (b) of this section shall be documented at the time of the determination and maintained for at least three years.

Adopted October 24, 2001

Effective November 15, 2001

DIVISION 6: MILITARY MUNITIONS

§335.271, §335.272

April 12, 2001

§335.271. Purpose, Scope, and Applicability.

(a) The purpose of this division is to adopt regulations which identify when military munitions become a solid waste, and if these wastes are also hazardous under this division or 40 Code of Federal Regulations Part 261, the management standards that apply to these wastes.

(b) Unless otherwise specified in the regulations adopted in this division, all applicable requirements of the commission's rules, including, but not limited to, Chapter 305 of this title (relating to Consolidated Permits) and Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste), apply to waste military munitions.

Adopted March 21, 2001

Effective April 12, 2001

§335.272. Standards.

(a) The regulations contained in 40 Code of Federal Regulations (CFR) Part 266 Subpart M, as amended through February 12, 1997, at 62 FedReg 6622 are adopted by reference, subject to the changes indicated in subsection (b) of this section.

(b) Reference to:

(1) August 12, 1997 is changed to the effective date of this rule;

(2) 40 CFR Parts 260 - 270 means the commission's rules including, but not limited to, Chapter 50 of this title (relating to Action on Applications and Other Authorizations), Chapter 305 of this title (relating to Consolidated Permits), and Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste), as applicable;

(3) 40 CFR Parts 260 - 279 means the commission's rules including, but not limited, to Chapter 50 of this title, Chapter 305 of this title, Chapter 328 of this title (relating to Waste Minimization and Recycling), and Chapter 335 of this title, as applicable;

(4) 40 CFR §260.10 is changed to §335.1 of this title (relating to Definitions);

(5) 40 CFR §261.2 is changed to the definition of "solid waste" in §335.1 of this title);

(6) 40 CFR §262.10(i) is changed to §335.61(h) of this title (relating to Standards Applicable to Generators of Hazardous Waste);

(7) 40 CFR §263.10(e) is changed to §335.91(f) of this title (relating to Standards Applicable to Transporters of Hazardous Waste);

(8) 40 CFR §§264.1(g)(8), 265.1(c)(11), and 270.1(c)(3) are changed to §335.41(d)(2) of this title (relating to Hazardous Waste Management General Provisions);

(9) 40 CFR §270.61 is changed to §335.402 of this title (related to Emergency Actions Concerning Hazardous Waste);

(10) Resource Conservation and Recovery Act (RCRA) §1004(27) is changed to Texas Health and Safety Code (THSC), §361.003(34) (related to the definition of Solid Waste);

(11) RCRA §3004(u) is changed to Texas Water Code (TWC), §7.031(a) and (b) (relating to Corrective Action Relating to Hazardous Waste);

(12) RCRA §3008(h) is changed to TWC, §7.031(c) - (e) (relating to Corrective Action Relating to Hazardous Waste);

(13) RCRA §7003 is changed to THSC, §361.272 (relating to Administrative Orders Concerning Imminent and Substantial Endangerment), THSC, §361.273 (relating to Injunction as Alternative to Administrative Order), THSC, §361.301 (relating to Emergency Order), TWC, §26.121, (relating to Unauthorized Discharges Prohibited.)

Adopted March 21, 2001

Effective April 12, 2001

SUBCHAPTER O: LAND DISPOSAL RESTRICTIONS

§335.431

Effective November 15, 2001

§335.431. Purpose, Scope, and Applicability.

(a) Purpose. The purpose of this subchapter is to identify hazardous wastes that are restricted from land disposal and define those limited circumstances under which an otherwise prohibited waste may continue to be land disposed.

(b) Scope and Applicability.

(1) Except as provided in paragraph (2) of this subsection, the requirements of this subchapter apply to persons who generate or transport hazardous waste and owners and operators of hazardous waste treatment, storage, and disposal facilities.

(2) The requirements of this subchapter do not apply to any entity that is either specifically excluded from coverage by this subchapter or would be excluded from the coverage of 40 Code of Federal Regulations (CFR), Part 268 by 40 CFR, Part 261, if those parts applied.

(3) Universal waste handlers and universal waste transporters, as defined in and subject to regulation under Subchapter H, Division 5 of this chapter (relating to Universal Waste Rule) are exempt from 40 CFR §268.7 and §268.50.

✓ (c) Adoption by Reference.

(1) except as provided in paragraph (2) of this subsection, and subject to the changes indicated in subsection (d) of this section, the regulations contained in 40 CFR Part 268, as amended through December 26, 2000 (65 FR 81373) are adopted by reference.

(2) The following sections of 40 CFR, Part 268 are excluded from the sections adopted in paragraph (1) of this subsection: §§268.1(f), 268.5, 268.6, 268.7(a)(10), 268.13, §268.42(b), and 268.44.

(3) Appendices IV, VI - IX, and XI of 40 CFR, Part 268 are adopted by reference as amended through May 26, 1998 (63 FR 28705).

(d) Changes to Adopted Parts. The parts of the CFR that are adopted by reference in subsection (c) of this section are changed as follows:

(1) The words "Administrator" or "Regional Administrator" are changed to "Executive Director;"

(2) The word "treatment" is changed to "processing;"

(3) The words "Federal Register," when they appear in the text of the regulation, are changed to "Texas Register;"

(4) In §268.7(a)(6) and (a)(7), the applicable definition of hazardous waste and solid waste is the one that is set out in this chapter rather than the definition of hazardous waste and solid waste that is set out in 40 CFR Part 261.

(5) In §268.50(a)(1), the citation to "§262.34" is changed to "§335.69."

Adopted October 24, 2001

Effective November 15, 2001