

The Texas Commission on Environmental Quality (commission) adopts amendments to §§305.2, 305.45, 305.49, and 305.50. Section 305.50 is adopted *with change* to the proposed text as published in the May 30, 2003 issue of the *Texas Register* (28 TexReg 4232). Sections 305.2, 305.45, and 305.49 are adopted *without changes* to the proposed text and will not be republished.

BACKGROUND AND SUMMARY OF THE FACTUAL BASIS FOR THE ADOPTED RULES

Senate Bill (SB) 405, 77th Legislature, established the Texas Board of Professional Geoscientists and the regulation of professional geoscientists. The Texas Geoscience Practice Act (the Act) requires that a person may not take responsible charge of a geoscientific report or a geoscientific portion of a report required by state agency rule unless the person is licensed through the Texas Board of Professional Geoscientists. The primary purpose of the amendments is to establish regulations for the public practice of geoscience in conformance with the Act by requiring a person who prepares and submits geoscientific information to the commission to be a licensed professional geoscientist. The Act also allows certain specified engineers to publicly practice geoscience in conformance with the Act. According to the bill analysis prepared at the time of passage, the ultimate purpose of the Act was public safety through the public registration of the practice of geoscience.

SECTION BY SECTION DISCUSSION

Adopted §305.2, Definitions, amends the introductory paragraph by deleting the word “shall” and the phrase “unless the context clearly indicates otherwise.” The definition of licensed professional geoscientist is added as new paragraph (20) as a geoscientist who maintains a current license through the Texas Board of Professional Geoscientists in accordance with its requirements for professional

practice. The definitions of CWA and person are deleted because they are defined in 30 TAC Chapter 3, Definitions. The existing paragraphs are renumbered accordingly. A corrected legal citation to Texas Health and Safety Code, Chapter 361, is adopted in renumbered paragraph (41) in the definition of solid waste permit since Texas Civil Statutes, Article 4477-7, was repealed in 1989.

Adopted §305.45(a), Contents of Application for Permit, substitutes “must” for “shall.” Subsection (a)(8) is amended to include licensed professional geoscientist or licensed professional engineer as one of the possible persons who may be required to make a supplementary technical report. The text has also been modified to indicate that any person who is submitting a report shall be competent and experienced in the field to which the application relates and thoroughly familiar with the operation or project for which the application is made.

Adopted §305.49(a), Additional Contents of Application for an Injection Well Permit, substitutes “must” for “shall.” Subsection (a)(9) is amended to require that a licensed professional geoscientist or licensed professional engineer prepare the delineation of any aquifer or portion of an aquifer for which exempt status is sought.

Adopted §305.50, Additional Requirements for an Application for a Hazardous or Industrial Solid Waste Permit and for a Post-Closure Order, amends subsection (b)(6) by adding the requirements that all engineering and geoscientific information submitted to the agency shall be prepared by, or under the supervision of, a licensed professional engineer or licensed professional geoscientist, and shall be signed, sealed, and dated by qualified professionals as required by the Texas Engineering Practice Act

and the Texas Geoscience Practice Act and the licensing and registration boards under these acts.

Paragraph (4) is amended to make the verb present tense instead of future tense. Subparagraph (F) is amended to correct the pronoun introducing the restrictive clause modifying the noun “permit” from “which” to “that”; substitute “must” for “shall”; and require that the information delineating all faults within 3,000 feet of the facility be provided by a licensed professional geoscientist or licensed professional engineer. Paragraph (6) is amended to correct the pronoun introducing two restrictive clauses modifying the noun “application” from “which” to “that” and include a conjunction between the two clauses, and require that the hydrogeologic report be prepared by a licensed professional geoscientist or licensed professional engineer. In addition, the commission is deleting “that is filed after January 1, 1986, and” in paragraph (6) in order not to make the licensed professional geoscientist and licensed professional engineer requirement retroactive.

FINAL REGULATORY IMPACT ANALYSIS DETERMINATION

The commission reviewed the adopted rulemaking in light of the regulatory analysis requirements of Texas Government Code, §2001.0225, and determined that the rulemaking is not subject to §2001.0225 because it does not meet the criteria for a “major environmental rule” as defined in that statute.

A “major environmental rule” means a rule, the specific intent of which, is to protect the environment or reduce risks to human health from environmental exposure and that may adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, or the public health and safety of the state or a sector of the state.

The specific intent of the adopted rules is to establish regulations allowing for the public practice of geoscience in agency procedures in conformance with the Act. The Act requires that a person may not take responsible charge of a geoscientific report or a geoscientific portion of a report required by a state agency rule unless the person is licensed through the Texas Board of Professional Geoscientists. The Act also allows certain specified engineers to publicly practice geoscience in conformance with the Act. The adopted rules are not specifically intended to protect the environment or reduce risks to human health. The adopted rules are intended to establish procedures to require that specific reports and necessary data submitted to the commission be produced, signed, sealed, and dated by licensed professional geoscientists who have obtained their licenses through the Texas Board of Professional Geoscientists, and to make other corrections to the rules. Therefore, it is not anticipated that the adopted rules will adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, or the public health and safety of the state or a sector of the state. The commission concludes that these adopted rules do not meet the definition of major environmental rule.

Furthermore, even if the adopted rulemaking did meet the definition of a major environmental rule, the amendments are not subject to Texas Government Code, §2001.0225, because they do not accomplish any of the four results specified in §2001.0225(a). Section 2001.0225(a) applies to a rule adopted by an agency, the result of which is to: 1) exceed a standard set by federal law, unless the rule is specifically required by state law; 2) exceed an express requirement of state law, unless the rule is specifically required by federal law; 3) exceed a requirement of a delegation agreement or contract between the state and an agency or representative of the federal government to implement a state and federal

program; or 4) adopt a rule solely under the general powers of the agency instead of under a specific state law.

In this case, the adopted amendments to Chapter 305 do not meet any of these requirements. First, there are no applicable federal standards that these rules would address. Second, the adopted rules do not exceed an express requirement of state law. Third, there is no delegation agreement that would be exceeded by these adopted rules. Fourth, the commission adopts these rules to allow for the public practice of geoscience in agency procedures in conformance with the Act. Therefore, the commission does not adopt the rules solely under the commission's general powers.

TAKINGS IMPACT ASSESSMENT

The commission evaluated these rules and performed an assessment of whether these rules constitute a takings under Texas Government Code, Chapter 2007. The specific intent of the rules is to establish regulations allowing for the public practice of geoscience in agency procedures in conformance with the Act. The rules would substantially advance this stated purpose by requiring that specific reports and necessary data submitted to the commission be produced, signed, sealed, and dated by licensed professional geoscientists who have obtained their licenses through the Texas Board of Professional Geoscientists.

Promulgation and enforcement of these rules would be neither a statutory nor a constitutional taking of private real property. Specifically, the rules do not affect a landowner's rights in private real property by burdening private real property, nor restricting or limiting a landowner's right to property, or

reducing the value of property by 25% or more beyond that which would otherwise exist in the absence of the adopted rulemaking. These rules simply require that specific portions of applications or necessary data submitted to the commission be produced, signed, sealed, and dated by a qualified professional individual who has demonstrated his or her qualifications by obtaining a license to engage in the public practice of geoscience from the Texas Board of Professional Geoscientists. The Act also allows certain specified engineers to publicly practice geoscience in conformance with the Act. These rules do not affect any private real property.

There are no burdens imposed on private real property, and the benefits to society are better applications for environmental permits based upon reliable reports and data submitted by qualified licensed professional geoscientists.

CONSISTENCY WITH THE COASTAL MANAGEMENT PROGRAM

The commission reviewed the adopted rulemaking and found that the adoption is a rulemaking identified in Coastal Coordination Act Implementation Rules, 31 TAC §505.11(b)(2), relating to Actions and Rules Subject to the Texas Coastal Management Program (CMP), or will affect an action and/or authorization identified in Coastal Coordination Act Implementation Rules, 31 TAC §505.11(a)(6).

The commission prepared a consistency determination for the rules under 31 TAC §505.22 and found that the rulemaking is consistent with the applicable CMP goals and policies. The CMP goal applicable to the rulemaking is the goal to protect, preserve, restore, and enhance the diversity, quality, quantity, functions, and values of coastal natural resource areas. CMP policies applicable to the adopted rules include the construction and operation of solid waste treatment, storage, and disposal facilities, and the

discharge of municipal and industrial wastewater to coastal waters. Promulgation and enforcement of these rules will not violate (exceed) any standards identified in the applicable CMP goals and policies because the adopted rule changes do not modify or alter standards set forth in existing rules, and will not have a substantive effect on commission actions subject to the CMP. The adopted rulemaking would require a person who prepares and submits geoscientific information to the agency to be a licensed professional geoscientist. The Act also allows certain specified engineers to publicly practice geoscience in conformance with the Act.

PUBLIC COMMENT

A public hearing was not held on this rulemaking and no comments were received during the comment period, which closed June 30, 2003.

SUBCHAPTER A: GENERAL PROVISIONS

§305.2

STATUTORY AUTHORITY

The amendment is adopted under Texas Water Code, §5.103, which provides the commission with the authority to adopt rules necessary to carry out its power and duties under this code and other laws of this state; Texas Water Code, §5.105, which authorizes the commission to establish and approve all general policy of the commission by rule; Texas Health and Safety Code, §361.024, which authorizes the commission to establish standards of operation for the management and control of solid waste; and Texas Civil Statutes, Article 3271b, the Act, which authorizes the public practice of geoscience in the State of Texas.

§305.2. Definitions.

The definitions contained in Texas Water Code, §§26.001, 27.002, and 28.001, and Texas Health and Safety Code, §§361.003, 401.003, and 401.004, apply to this chapter. The following words and terms, when used in this chapter, have the following meanings.

(1) **Application** - A formal written request for commission action relative to a permit or a post-closure order, either on commission forms or other approved writing, together with all materials and documents submitted to complete the application.

(2) **Bypass** - The intentional diversion of a waste stream from any portion of a treatment facility.

(3) **Class I sludge management facility** - Any publicly owned treatment works identified under 40 Code of Federal Regulations §403.10(a), as being required to have an approved pretreatment program and any other treatment works treating domestic sewage classified as a Class I sludge management facility by the regional administrator in conjunction with the executive director because of the potential for its sludge use or disposal practices to adversely affect public health and the environment.

(4) **Component** - Any constituent part of a unit or any group of constituent parts of a unit which are assembled to perform a specific function (e.g., a pump seal, pump, kiln liner, kiln thermocouple).

(5) **Continuous discharge** - A discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

(6) **Corrective action management unit (CAMU)** - An area within a facility that is designated by the commission under 40 Code of Federal Regulations 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 Texas Water Code, §7.031 (relating to

Corrective Action Relating to Hazardous Waste). A CAMU shall only be used for the management of remediation wastes while implementing such corrective action requirements at the facility.

(7) **Daily average concentration** - The arithmetic average of all effluent samples, composite, or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

(A) For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

(B) For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

(8) **Daily average flow** - The arithmetic average of all determinations of the daily discharge within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily discharge, the determination shall be the average of all instantaneous measurements taken during a 24-hour period or during the period of daily discharge if less than 24 hours. Daily

average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

(9) **Direct discharge** - The discharge of a pollutant.

(10) **Discharge monitoring report (DMR)** - The EPA uniform national form, including any subsequent additions, revisions, or modifications for the reporting of self-monitoring results by permittees.

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

(12) **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.

(13) **Effluent limitation** - Any restriction imposed on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters in the state.

(14) **Facility** - Includes:

(A) all contiguous land and fixtures, structures, or appurtenances used for storing, processing, treating, or disposing of waste, or for injection activities. A facility may consist of several storage, processing, treatment, disposal, or injection operational units;

(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 and 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 (relating to Corrective Action Relating to Hazardous Waste);

(15) **Facility mailing list** - The mailing list for a facility maintained by the commission in accordance with 40 Code of Federal Regulations (CFR) §124.10(c)(1)(ix) and §39.7 of this title (relating to Mailing Lists). For Class I injection well underground injection control permits, the mailing list also includes the agencies described in 40 CFR §124.10(c)(1)(viii).

(16) **Functionally equivalent component** - A component which performs the same function or measurement and which meets or exceeds the performance specifications of another component.

(17) **Indirect discharger** - A non-domestic discharger introducing pollutants to a publicly owned treatment works.

(18) **Injection well permit** - A permit issued in accordance with Texas Water Code, Chapter 27.

(19) **Land disposal facility** - Includes landfills, waste piles, surface impoundments, land farms, and injection wells.

(20) **Licensed professional geoscientist** - A geoscientist who maintains a current license through the Texas Board of Professional Geoscientists in accordance with its requirements for professional practice.

(21) **National Pollutant Discharge Elimination System (NPDES)** - The national program for issuing, amending, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under CWA, §§307, 402, 318, and 405. The term includes an approved program.

(22) **New discharger** -

(A) Any building, structure, facility, or installation:

- (i) from which there is or may be a discharge of pollutants;
- (ii) that did not commence the discharge of pollutants at a particular site prior to August 13, 1979;
- (iii) which is not a new source; and
- (iv) which has never received a finally effective National Pollutant Discharge Elimination System permit for discharges at that site.

(B) This definition includes an indirect discharger which commences discharging into water of the United States after August 13, 1979. It also includes any existing mobile point source (other than an offshore or coastal oil and gas exploratory drilling rig or a coastal oil and gas developmental drilling rig) such as a seafood processing rig, seafood processing vessel, or aggregate plant, that begins discharging at a site for which it does not have a permit.

(23) **New source** - Any building structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

- (A) after promulgation of standards of performance under CWA, §306; or

(B) after proposal of standards of performance in accordance with CWA, §306, which are applicable to such source, but only if the standards are promulgated in accordance with §306 within 120 days of their proposal.

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

(25) **Outfall** - The point or location where waterborne waste is discharged from a sewer system, treatment facility, or disposal system into or adjacent to water in this state.

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

(27) **Permit** - A written document issued by the commission which, by its conditions, may authorize the permittee to construct, install, modify, or operate, in accordance with stated limitations, a specified facility for waste discharge, for solid waste storage, processing, or disposal, for radioactive material disposal, or for underground injection, and includes a wastewater discharge permit, a solid waste permit, a radioactive material disposal license, and an injection well permit.

(28) **Post-closure order** - An order issued by the commission for post-closure care of interim status units, a corrective action management unit unless authorized by permit, or alternative corrective action requirements for contamination commingled from RCRA and solid waste management units.

(29) **Primary industry category** - Any industry category listed in 40 Code of Federal Regulations Part 122, Appendix A, adopted by reference by §305.532(d) of this title (relating to Adoption of Appendices by Reference).

(30) **Process wastewater** - Any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

(31) **Processing** - The extraction of materials, transfer or volume reduction, conversion to energy, or other separation and preparation of waste for reuse or disposal, and includes the treatment or neutralization of hazardous waste so as to render such waste nonhazardous, safer for transport, or amenable to recovery, storage, or volume reduction. The meaning of transfer as used here, does not include the conveyance or transport off-site of solid waste by truck, ship, pipeline, or other means.

(32) **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 the state or a municipality. This definition includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

(33) **Radioactive material** - A naturally occurring or artificially produced solid, liquid, or gas that emits radiation spontaneously.

(34) **Recommencing discharger** - A source which recommences discharge after terminating operations.

(35) **Regional administrator** - Except when used in conjunction with the words “state director,” or when referring to EPA approval of a state program, where there is a reference in the EPA regulations adopted by reference in this chapter to the “regional administrator” or to the “director,” the reference is more properly made, for purposes of state law, to the executive director of the Texas Commission on Environmental Quality, or to the Texas Commission on Environmental Quality, consistent with the organization of the agency as set forth in Texas Water Code, Chapter 5, Subchapter B. When used in conjunction with the words “state director” in such regulations, regional administrator means the regional administrator for the Region VI office of the EPA or his or her authorized representative. A copy of 40 Code of Federal Regulations Part 122, is available for inspection at the library of the Texas Commission on Environmental Quality, located on the first floor of Building A at 12100 Park 35 Circle, Austin, Texas.

(36) **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 Texas Water Code (TWC), §7.031 (relating to 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 TWC, §7.031; §335.166(5) of this title (relating to Corrective Action Program); or §335.167(c) of this title.

(37) **Schedule of compliance** - A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (e.g., actions, operations, or milestone events) leading to compliance with CWA and regulations.

(38) **Severe property damage** - Substantial physical damage to property, damage to treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a discharge. Severe property damage does not mean economic loss caused by delays in production.

(39) **Sewage sludge** - The solids, residues, and precipitate separated from or created in sewage or municipal waste by the unit processes of a treatment works.

(40) **Site** - The land or water area where any facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity.

(41) **Solid waste permit** - A permit issued under Texas Health and Safety Code, Chapter 361, as amended.

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

(43) **Texas pollutant discharge elimination system (TPDES)** - The state program for issuing, amending, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under CWA, §§307, 318, 402, and 405; Texas Water Code; and Texas Administrative Code regulations.

(44) **Toxic pollutant** - Any pollutant listed as toxic under CWA, §307(a) or, in the case of sludge use or disposal practices, any pollutant identified in regulations implementing CWA, §405(d).

(45) **Treatment works treating domestic sewage** - A publicly owned treatment works or any other sewage sludge or wastewater treatment devices or systems, regardless of ownership (including federal facilities), used in the storage, treatment, recycling, and reclamation of sewage or municipal waste, including land dedicated for the disposal of sewage sludge. This definition does not include septic tanks or similar devices.

(46) **Variance** - Any mechanism or provision under CWA, §301 or §316, or under Chapter 308 of this title (relating to Criteria and Standards for the National Pollutant Discharge Elimination System) which allows modification to or waiver of the generally applicable effluent limitation requirements or time deadlines of CWA or this title.

(47) **Wastewater discharge permit** - A permit issued under Texas Water Code, Chapter 26.

(48) **Wetlands** - Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas and constitute water in the state.

SUBCHAPTER C: APPLICATION FOR PERMIT OR POST-CLOSURE ORDER

§§305.45, 305.49, 305.50

STATUTORY AUTHORITY

The amendments are adopted under Texas Water Code, §5.103, which provides the commission with the authority to adopt rules necessary to carry out its power and duties under this code and other laws of this state; Texas Water Code, §5.105, which authorizes the commission to establish and approve all general policy of the commission by rule; Texas Health and Safety Code, §361.024, which authorizes the commission to establish standards of operation for the management and control of solid waste; and Texas Civil Statutes, Article 3271b, the Act, which authorizes the public practice of geoscience in the State of Texas.

§305.45. Contents of Application for Permit.

(a) Forms for permit applications will be made available by the executive director. Each application for permit must include the following:

(1) the name, mailing address, and location of the facility for which the application is submitted;

(2) the ownership status as federal, state, private, public, or other entity;

(3) the applicant's name, mailing address, and telephone number;

(4) a brief description of the nature of the business;

(5) the activities conducted by the applicant which require a permit;

(6) a topographic map, ownership map, county highway map, or a map prepared by a registered professional engineer or a registered surveyor which shows the facility and each of its intake and discharge structures and any other structure or location regarding the regulated facility and associated activities. Maps must be of material suitable for a permanent record, and shall be on sheets 8-1/2 inches by 14 inches or folded to that size, and shall be on a scale of not less than one inch equals one mile. The map shall depict the approximate boundaries of the tract of land owned or to be used by the applicant and shall extend at least one mile beyond the tract boundaries sufficient to show the following:

(A) each well, spring, and surface water body or other water in the state within the map area;

(B) the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, and so forth;

(C) the location of any waste disposal activities conducted on the tract not included in the application;

(D) the ownership of tracts of land adjacent to the facility and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity;

(E) such other information that reasonably may be requested by the executive director;

(7) a listing of all permits or construction approvals received or applied for under any of the following programs:

(A) Hazardous Waste Management Program under the Texas Solid Waste Disposal Act;

(B) Underground Injection Control (UIC) Program under the Texas Injection Well Act;

(C) National Pollutant Discharge Elimination System (NPDES) Program under the CWA and Waste Discharge Program under the Texas Water Code, Chapter 26;

(D) Prevention of Significant Deterioration (PSD) Program under the FCAA;

(E) Nonattainment Program under the FCAA;

(F) national emission standards for hazardous pollutants (NESHAPS)
preconstruction approval under the FCAA;

(G) ocean dumping permits under the Marine Protection Research and
Sanctuaries Act;

(H) dredge or fill permits under the FCAA;

(I) licenses under the TRCA; and

(J) other environmental permits; and

(8) a supplementary technical report submitted in connection with an application. The report shall be prepared either by a Texas licensed professional engineer, a licensed professional geoscientist, or by a qualified person who is competent and experienced in the field to which the application relates and thoroughly familiar with the operation or project for which the application is made. The report must include the following:

(A) a general description of the facilities and systems used for or in connection with the collection, transportation, treatment, and disposal of waste, or used in connection with an injection activity;

(B) for each outfall, injection well, place of deposit, or place of disposal:

(i) the volume and rate of disposal of the defined waste or of fluid injection, including appropriate averages, the maximum rates of disposal or injection over representative periods of time, and detailed information regarding patterns of disposal or injection; and

(ii) the physical, chemical, and radiological properties of the defined waste or the injection fluids; the characteristics of the waste or the injection fluid; the chemical, physical, thermal, organic, bacteriological, or radiological properties or characteristics, as applicable, described in enough detail to allow evaluation of the water and environmental quality considerations involved;

(C) such other information as reasonably may be required by the executive director for an adequate understanding of the project or operation, and which is necessary to provide the commission an adequate opportunity to make the considerations required by §331.121 of this title (relating to Class I Wells), §331.122 of this title (relating to Class III Wells), §305.50 of this title (relating to Additional Requirements for an Application for a Hazardous or Industrial Solid Waste Permit and for a Post-Closure Order), §305.48 of this title (relating to Additional Contents for

Applications for Waste Discharge Permits), §305.54 of this title (relating to Additional Requirements for Radioactive Material License), §336.207 of this title (relating to General Requirements for Issuance of a License), §336.513 of this title (relating to Technical Requirements for Active Disposal Sites), §336.617 of this title (relating to Technical Requirements for Inactive Disposal Sites), §336.705 of this title (relating to Content of Application), and Chapter 330, Subchapter E of this title (relating to Permit Procedures).

(b) Only one application needs to be filed for each geographical location in which waste is or will be disposed of or discharged from, even though there may be more than one outfall, place of deposit, or other place of disposal covered in the application.

§305.49. Additional Contents of Application for an Injection Well Permit.

(a) The following must be included in an application for an injection well permit:

(1) for Class I wells, as defined in Chapter 331 of this title (relating to Underground Injection Control), the information listed in §331.121 of this title (relating to Class I Wells);

(2) for Class III wells, as defined in Chapter 331 of this title, the information listed in §331.122 of this title (relating to Class III wells);

(3) the manner in which compliance with the financial assurance requirements in Chapter 37 of this title (relating to Financial Assurance) will be attained;

(4) the manner in which compliance with the plugging and abandonment requirements of §331.46 of this title (relating to Closure Standards) will be attained;

(5) the manner in which compliance with the corrective action requirements of §331.44 of this title (relating to Corrective Action Standards) will be attained;

(6) the manner in which compliance with the post-closure requirements of §331.68 of this title (relating to Post-Closure Care) will be attained;

(7) a letter from the Railroad Commission of Texas stating that the drilling of a disposal well and the injection of the waste into the subsurface stratum selected for disposal will not endanger or injure any oil or gas formation;

(8) for Class III wells, a description of all liquid and solid nonradioactive wastes resulting from mining activities;

(9) a complete delineation by a licensed professional geoscientist or a licensed professional engineer of any aquifer or portion of an aquifer for which exempt status is sought; and

(10) any other information reasonably required by the executive director to evaluate the proposed injection well or project, including, but not limited to, the information set forth in Texas Water Code, §27.051(a).

(b) An application for production area authorization shall be submitted with and contain the following for each production area:

(1) mine plan;

(2) a restoration table;

(3) a baseline water quality table;

(4) control parameter upper limits;

(5) monitor well locations; and

(6) other information reasonably required by the executive director to evaluate the application.

(c) An application under this section shall comply with the requirements of §305.50(a)(4)(B) of this title (relating to Additional Requirements for an Application for a Hazardous or Industrial Solid Waste Permit and for a Post-Closure Order).

§305.50. Additional Requirements for an Application for a Hazardous or Industrial Solid Waste Permit and for a Post-Closure Order.

(a) Unless otherwise stated, an application for a permit to store, process, or dispose of solid waste must meet the following requirements.

(1) One original and three copies of the permit application shall be submitted on forms provided by or approved by the executive director and shall be accompanied by a like number of originals and copies of all required exhibits.

(2) Plans and specifications for the construction and operation of the facility and the staffing pattern for the facility shall be submitted, including the qualifications of all key operating personnel. Also to be submitted is the closing plan for the solid waste storage, processing, or disposal facility. The information provided must be sufficiently detailed and complete to allow the executive director to ascertain whether the facility will be constructed and operated in compliance with all pertinent state and local air, water, public health, and solid waste statutes. Also to be submitted are listings of sites owned, operated, or controlled by the applicant in the State of Texas. For purposes of this section, the terms "permit holder" and "applicant" include each member of a partnership or

association and, with respect to a corporation, each officer and the owner or owners of a majority of the corporate stock, provided such partner or owner controls at least 20% of the permit holder or applicant and at least 20% of another business which operates a solid waste management facility.

(3) Any other information as the executive director may deem necessary to determine whether the facility and the operation thereof will comply with the requirements of the TSWDA and Chapter 335 of this title (relating to Industrial Solid Waste and Municipal Hazardous Waste), shall be included, including, but not limited to, the information set forth in the TSWDA, §4(e)(13).

(4) An application for a permit, permit amendment, or permit modification to store, process, or dispose of hazardous waste is subject to the following requirements, as applicable.

(A) In the case of an application for a permit to store, process, or dispose of hazardous waste, the application shall also contain any additional information required by 40 Code of Federal Regulations (CFR) §§270.13 - 270.27, except that closure cost estimates shall be prepared in accordance with 40 CFR §264.142(a)(1), (3), and (4), as well as §37.131 of this title (relating to Annual Inflation Adjustments to Closure Cost Estimates), §37.141 of this title (relating to Increase in Current Cost Estimate), and §335.178 of this title (relating to Cost Estimate for Closure).

(B) An application for a permit to store, process, or dispose of hazardous waste shall also contain financial information sufficient to demonstrate to the satisfaction of the executive director that the applicant has sufficient financial resources to operate the facility in a safe

manner and in compliance with the permit and all applicable rules, including, but not limited to, how an applicant intends to obtain financing for construction of the facility, and to close the facility properly.

Financial information submitted to satisfy this subparagraph shall meet the requirements of subparagraph (C) or (D) of this paragraph.

(C) For applicants possessing a resolution from a governing body approving or agreeing to approve the issuance of bonds for the purpose of satisfying the financial assurance requirements of subparagraph (B) of this paragraph, submission of the following information will be an adequate demonstration:

(i) a statement signed by an authorized signatory in accordance with §305.44(a) of this title (relating to Signatories to Applications) explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, and provide adequate liability coverage for the facility. This statement must also address how the applicant intends to comply with the financial assurance requirements for closure, post-closure, corrective action, and liability coverage in accordance with Chapter 37, Subchapter P of this title (relating to Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities);

(ii) a certified copy of the resolution; and

(iii) certification by the governing body of passage of the resolution.

(D) For all applicants not meeting the requirements of subparagraph (C) of this paragraph, financial information submitted to satisfy the requirements of subparagraph (B) of this paragraph must include the applicable items listed under clauses (i) - (vii) of this subparagraph. Financial statements required under clauses (ii) and (iii) of this subparagraph shall be prepared in accordance with generally accepted accounting principles and include a balance sheet, income statement, cash flow statement, notes to the financial statements, and accountant's opinion letter:

(i) a statement signed by an authorized signatory in accordance with §305.44(a) of this title explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, and provide adequate liability coverage for the facility. This statement must also address how the applicant intends to comply with the financial assurance requirements for closure, post-closure, corrective action, and liability coverage in accordance with Chapter 37, Subchapter P of this title;

(ii) for applicants for which audited financial statements have been prepared the previous two or more years, the following financial statements:

(I) audited financial statements for the previous two years; and

(II) the most current quarterly financial statement prepared according to generally accepted accounting principles;

(iii) for applicants for which audited financial statements have not been prepared the previous two or more years, the following copies of tax returns and financial statements:

(I) copies of tax returns for the previous two years, each certified by original signature of an authorized signatory as being a "true and correct copy of the return filed with the Internal Revenue Service";

(II) financial statements for the previous two years; and

(III) additionally, an audited financial statement for the most recent fiscal year;

(iv) for publicly traded companies, copies of Securities and Exchange Commission Form 10-K for the previous two years and the most current Form 10-Q;

(v) for privately-held companies, written disclosure of the information that would normally be found in Securities and Exchange Commission Form 10-K including, but not limited to, the following:

(I) descriptions of the business and its operations;

(II) identification of any affiliated relationships;

(III) credit agreements and terms;

(IV) any legal proceedings involving the applicant;

(V) contingent liabilities; and

(VI) significant accounting policies;

(vi) for applications encompassing facility expansion, capacity expansion, or new construction, estimates of capital costs for expansion and/or construction;

(vii) if an applicant cannot or chooses not to demonstrate sufficient financial resources through submittal of the financial documentation specified in clauses (i) - (v) of this subparagraph and who must or chooses to obtain additional financing through a new stock offering or new debt issuance for facility expansion, capacity expansion, or new construction; and for safe operation, proper closure, and adequate liability coverage, the following information:

(I) a financial plan sufficiently detailed to clearly demonstrate that the applicant will be in a position to readily secure financing for construction, operation, and closure if the permit is issued. The submitted financial plan must be accompanied by original letters of opinion from two financial experts, not otherwise employed by the applicant, who have the demonstrated ability to either finance the facility or place the required financing. The opinion letters

must certify that the financial plan is reasonable; certify that financing is obtainable within 180 days of final administrative and judicial disposition of the permit application; and include the time schedule contingent upon permit finality for securing the financing. Only one opinion letter from a financial expert, not otherwise employed by the applicant, is required if the letter renders a firm commitment to provide all the necessary financing; and

(II) written detail of the annual operating costs of the facility and a projected cash flow statement including the period of construction and first two years of operation. The cash flow statement must demonstrate the financial resources to meet operating costs, debt service, and financial assurance for closure, post-closure care, and liability coverage requirements. A list of the assumptions made to forecast cash flow shall also be provided.

(E) If any of the information required to be disclosed under subparagraph (D) of this paragraph would be considered confidential under applicable law, the information shall be protected accordingly. During hearings on contested applications, disclosure of confidential information may be allowed only under an appropriate protective order.

(F) An application for a modification or amendment of a permit that includes a capacity expansion of an existing hazardous waste management facility must also contain information provided by a licensed professional geoscientist or licensed professional engineer delineating all faults within 3,000 feet of the facility, together with a demonstration, unless previously demonstrated to the commission or the EPA, that:

(i) the fault has not experienced displacement within Holocene time, or if faults have experienced displacement within Holocene time, that no such faults pass within 200 feet of the portion of the surface facility where treatment, storage, or disposal of hazardous wastes will be conducted; and

(ii) the fault will not result in structural instability of the surface facility or provide for groundwater movement to the extent that there is endangerment to human health or the environment.

(G) At any time after the effective date of the requirements contained in Chapter 335, Subchapter F of this title (relating to Permitting Standards for Owners and Operators of Hazardous Waste Storage, Processing, or Disposal Facilities), the executive director may require the owner or operator of an existing hazardous waste management facility to submit that portion of his application containing the information specified in 40 CFR §§270.14 - 270.27. Any owner or operator shall be allowed a reasonable period of time from the date of the request to submit the information. An application for a new hazardous waste management facility must be submitted at least 180 days before physical construction of the facility is expected to commence.

(5) An application for a new hazardous waste landfill which is filed after January 1, 1986, must include an engineering report which evaluates the benefits, if any, associated with the construction of the landfill above existing grade at the proposed site, the costs associated with the

above-grade construction, and the potential adverse effects, if any, which would be associated with the above-grade construction.

(6) An application for a new hazardous waste landfill, land treatment facility, or surface impoundment that is to be located in the apparent recharge zone of a regional aquifer must include a hydrogeologic report prepared by a licensed professional geoscientist or licensed professional engineer documenting the potential effects, if any, on the regional aquifer in the event of a release from the waste containment system.

(7) Engineering plans and specifications submitted as part of the permit application shall be prepared and sealed by a registered professional engineer who is currently registered as required by the Texas Engineering Practice Act.

(8) After August 8, 1985, any Part B permit application submitted by an owner or operator of a facility that stores, processes, or disposes of hazardous waste in a surface impoundment or a landfill must be accompanied by information, reasonably ascertainable by the owner or operator, on the potential for the public to be exposed to hazardous wastes or hazardous constituents through releases related to the unit. By August 8, 1985, owners and operators of a landfill or a surface impoundment who have already submitted a Part B application must submit the exposure information required by this paragraph. At a minimum, such information must address:

(A) reasonably foreseeable potential releases from both normal operations and accidents at the unit, including releases associated with transportation to or from the unit;

(B) the potential pathways of human exposure to hazardous wastes or constituents resulting from documented releases; and

(C) the potential magnitude and nature of the human exposure resulting from such releases.

(9) In the case of an application for a permit to store, process, or dispose of hazardous waste at a new hazardous waste management facility, or an application for amendment or modification of a solid waste management facility permit to provide for capacity expansion, the application shall also identify the nature of any known specific and potential sources, types, and volumes of waste to be stored, processed, or disposed of by the facility and shall identify any other related information the executive director may require.

(10) In the case of an application for a permit to store, process, or dispose of hazardous waste at a new hazardous waste management facility, the application must also contain the following:

(A) copies of any relevant land use plans, adopted in accordance with the Texas Local Government Code, Chapter 211, which were 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;

(B) identification of the names and locations of industrial and other waste-generating facilities within 1/2 mile of the facility in the case of an application for a permit for a new on-site hazardous waste management facility, and within one mile of the facility in the case of an application for a permit for a new commercial hazardous waste management facility;

(C) the approximate quantity of hazardous waste generated or received annually at those facilities described under subparagraph (B) of this paragraph;

(D) descriptions of the major routes of travel in the vicinity of the facility to be used for the transportation of hazardous waste to and from the facility, together with a map showing the land-use patterns, covering at least a five-mile radius from the boundaries of the facility; and

(E) the information and demonstrations concerning faults described under paragraph (4)(F) of this subsection.

(11) In the case of an application for a permit to store, process, or dispose of hazardous waste, the application shall also contain information sufficient to demonstrate to the satisfaction of the commission that a proposed hazardous waste landfill, areal expansion of such landfill, or new commercial hazardous waste land disposal unit is not subject to inundation as a result of a 100-

year flood event. An applicant or any other party may not rely solely on floodplain maps prepared by the Federal Emergency Management Agency or a successor agency to determine whether a hazardous waste landfill, areal expansion of such landfill, or commercial hazardous waste land disposal unit is subject to such an inundation.

(12) In the case of an application for a permit to store, process, or dispose of hazardous waste at a new commercial hazardous management facility, the application shall also contain the following:

(A) information sufficient to demonstrate whether a burden will be imposed on public roadways by vehicles traveling to and from the facility, including, at a minimum:

(i) the average gross weight of the various types and sizes of such vehicles to be used for transportation of hazardous waste;

(ii) the average number of such vehicles which would travel the public roadways; and

(iii) identification of the roads to be used by vehicles traveling to and from the facility within a minimum radius of 2 1/2 miles from the facility. Such identification must include the major highways nearest the facility, even if they are located outside the 2 1/2 mile radius;

(B) in addition to the requirements of subparagraph (A) of this paragraph, an applicant may submit a letter from the relevant agency of the state, county, or municipality which has the authority to regulate and maintain roads which states unequivocally that the roads to and from the facility are adequate for the loads to be placed on them by the proposed facility. Such letter will serve as prima facie evidence that the additional loads placed on the roadways caused by the operation of the facility would not constitute a burden and thus would not require that improvements be made to such roadways. Such letter does not, however, obviate the need to submit the information required under subparagraph (A) of this paragraph;

(C) evidence sufficient to demonstrate that:

(i) 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, that has the ability to manage a reasonable worst-case emergency condition associated with the operation of the facility; such evidence may include, but is not limited to, the following:

(I) in addition to the contingency plan required under 40 CFR §270.14(b)(7), provisions specifying procedures and timing of practice facility evacuation drills, where there is a possibility that evacuation of the facility could be necessary;

(II) contracts with any private corporation, municipality, or county to provide emergency response;

(III) weather data which might tend to affect emergency response;

(IV) a definition of worst-case emergencies, e.g., fires, explosions, the Texas Design Hurricane, or the Standard Project Hurricane;

(V) a training program for personnel for response to such emergencies;

(VI) identification of first-responders;

(VII) identification of local or regional emergency medical services and hospitals which have had hazardous materials training;

(VIII) a pre-disaster plan, including drills;

(IX) a mechanism for notifying all applicable government agencies when an incident occurs (i.e., Texas Commission on Environmental Quality, Texas Parks and Wildlife, General Land Office, Texas Department of Health, and Texas Railroad Commission);

(X) a showing of coordination with the local emergency planning committee and any local comprehensive emergency management plan; and

(XI) any medical response capability which may be available on the facility property; or

(ii) the applicant has secured bonding of sufficient financial assurance to fund the emergency response personnel and equipment determined to be necessary by the executive director to manage a reasonable worst-case emergency condition associated with the facility; such financial assurance may be demonstrated by providing information which may include, but is not limited to, the following:

(I) long-term studies using an environmental model which provide the amount of damages for which the facility is responsible; and

(II) costs involved in supplying any of the information included in or satisfying any of the requirements of clause (i)(I) - (XI) of this subparagraph;

(D) if an applicant does not elect to provide its own facilities or secure bonding to ensure sufficient emergency response capabilities in accordance with §335.183 of this title (relating to Emergency Response Capabilities Required for New Commercial Hazardous Waste Management Facilities), the applicant must provide prior to the time the facility first receives waste:

(i) documentation showing agreements with the county and/or municipality in which the facility is located, or documentation showing agreements with an adjoining

county, municipality, mutual aid association, or other appropriate entity such as professional organizations regularly doing business in the area of emergency and/or disaster response; or

(ii) demonstration that a financial assurance mechanism in the form of a negotiable instrument, such as a letter of credit, fully paid in trust fund, or an insurance policy, with the limitation that the funds can only be used for emergency response personnel and equipment and made payable to and for the benefit of the county government and/or municipal government in the county in which the facility is located or proposed to be located; and

(E) a written statement signed by an authorized signatory in accordance with §305.44(a) of this title explaining how the applicant intends to provide emergency response financial assurance to meet the requirements of subparagraph (C) or (D) of this paragraph; and

(F) a summary of the applicant's experience in hazardous waste management and in particular the hazardous waste management technology proposed for the application location, and, for any applicant without experience in the particular hazardous waste management technology, a conspicuous statement of that lack of experience.

(13) An application for a boiler or industrial furnace burning hazardous waste at a facility at which the owner or operator uses direct transfer operations to feed hazardous waste from transport vehicles (containers, as defined in 40 CFR §266.111) directly to the boiler or industrial

furnace shall submit information supporting conformance with the standards for direct transfer provided by 40 CFR §266.111 and §335.225 of this title (relating to Additional Standards for Direct Transfer).

(14) The executive director may require a permittee or an applicant to submit information in order to establish permit conditions under §305.127(4)(A) and (1)(B)(iii) of this title (relating to Conditions to be Determined for Individual Permits).

(b) An application specifically for a post-closure permit or for a post-closure order for post-closure care must meet the following requirements, as applicable.

(1) An application for a post-closure permit or a post-closure order shall contain information required by 40 CFR §270.14(b)(1), (4) - (6), (11), (13), (14), (18), and (19), (c), and (d), and any additional information that the executive director determines is necessary from 40 CFR §§270.14, 270.16 - 270.18, 270.20, or 270.21, except that closure cost estimates shall be prepared in accordance with 40 CFR §264.142(a)(1), (3), and (4), as well as §§37.131, 37.141, 335.127, and 335.178 of this title.

(2) An application for a post-closure order shall also contain financial information sufficient to demonstrate to the satisfaction of the executive director that the applicant has sufficient financial resources to operate the facility in a safe manner and in compliance with the post-closure order and all applicable rules. Financial information submitted to satisfy this paragraph shall meet the requirements of Chapter 37, Subchapter P of this title.

(3) An application for a post-closure order or for a post-closure permit must also contain any other information as the executive director may deem necessary to determine whether the facility and the operation thereof will comply with the requirements of the TSWDA and Chapter 335 of this title including, but not limited to, the information set forth in TSWDA, §361.109.

(4) The executive director may require an applicant for a post-closure order to submit information in order to establish conditions under §305.127(4)(A) of this title.

(5) An application for a post-closure order or for a post-closure permit shall also contain the information listed in §305.45(a)(1) of this title (relating to Contents of Application for Permit).

(6) All engineering and geoscientific information submitted to the agency shall be prepared by, or under the supervision of, a licensed professional engineer or licensed professional geoscientist, and shall be signed, sealed, and dated by qualified professionals as required by the Texas Engineering Practice Act and the Texas Geoscience Practice Act and the licensing and registration boards under these acts.

(7) One original and three copies of an application for a post-closure permit or for a post-closure order shall be submitted on forms provided by, or approved by, the executive director and shall be accompanied by a like number of originals and copies of all required exhibits.