

Electronics Recycling Overview

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Small Business & Local Government Assistance
1-800-447-2827 www.TexasEnviroHelp.org



SBLGA Programs Offer:

- ☑ Technical Assistance
with understanding the rules and meeting requirements.
- ☑ One to One Help
- ☑ Compliance Tools
- ☑ Free & Confidential



TCEQ Waste Rules

- Title 30 Texas Administrative Code (TAC)
 - Chapter 328 Subchapter A: Waste Minimizations and Recycling
 - Chapter 330, Municipal Solid Waste
 - Chapter 335, Industrial and Solid Waste
 - Subchapter H. Division 5. Universal Waste
 - Subchapter N: Household Hazardous Waste



Source-Separated Recycling

- If a facility receives, processes, and returns to use only nonputrecible, source-separated recyclable materials diverted from a municipal solid waste stream, the recycling facility will be exempt from **permitting** and **registration** requirements provided it complies with certain requirements.



Exemptions From Permitting and Registration (MSW)

- Recycling Facilities are generally exempt if they accept:
 - non-putrescible matter
 - source-separated from MSW waste
 - No more than 10% per incoming load



Industrial Notification?

- Are you getting material from an Industrial Facility that's reporting it as a waste to TCEQ?
- Notification Requirements:
 - TCEQ-0524 if you receive non-haz industrial materials
 - TCEQ-0525 if you are a generator recycling hazardous or industrial waste.



MSW Notice of Intent?

- 30 TAC 328.4 (storage) and 328.5 (recordkeeping)
- Exempt from a MSW Notice of Intent (NOI)?
 - Are a local government or an agency of state or federal government; **or**
- Receive > 50% of your materials from:
 - Generators/haulers not affiliated with the facility or from the public; **and** receive **no financial compensation**;



NOI Exempt Continued?

- Material is potentially recyclable; **or**
- Are a smelter of recyclable metals or affiliated with a smelter; **or**
- Are owned/operated by a person who holds a permit to dispose of municipal solid waste.
- Exempt from 328.4 and 328.5
 - Recordkeeping and reporting requirements but not 328.149 Sound Environmental Management



Not exempt from 328.4 (Storage)

- Store only source-separated, non-putrescible recyclable materials.
- Materials must be shipped to prevent accumulation (50% every 6 months).
- Limit non-recyclables (<10% per load & <5% per 6 months) and keep records.
- **Waste must be disposed of properly!**



Reporting & Recordkeeping 328.5


- Notice of Intent (NOI) – TCEQ-20049
- Core Data Form – TCEQ-10400 owner and operator*
- Financial Assurance (if storing combustible materials outdoors)*
- Fire Prevention Suppression Plan*



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- [Permits, Registrations](#)
- [Preventing Pollution](#)
- [Recycling](#)
- [Reporting](#)
- [Rules](#)

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Storage limits, and recordkeeping and reporting requirements for Texas operations that recycle materials diverted from municipal solid waste streams.

- [Overview](#)
 - [Recyclable Materials](#)
 - [Combustible Materials](#)
 - [Incidental Waste](#)
- [General Requirements](#)
- [Storage, Reporting, and Recordkeeping Requirements](#)
 - [Storage](#)
 - [Reporting](#)
 - [Recordkeeping](#)
- [Additional Reporting Requirements for Nonhazardous Industrial Materials](#)
- [Financial Assurance](#)
- [Auto Recycling](#)
- [More Information and Publications](#)

Overview

Recyclable Materials

If you receive, process, and return to use only nonputrescible, *source-separated* recyclable materials diverted from a municipal solid waste stream, your recycling facility will be exempt from permitting and registration requirements provided you comply with [general requirements](#) and with certain [storage, recordkeeping, and reporting requirements](#). Examples of common source-separated recyclable materials include cardboard, paper, glass, plastic, aluminum, and metals that are separated from the solid waste stream at the point of generation.

- [Requirements for Nonhazardous Recycling and Composting Facilities](#) (RG-410, in PDF; help with PDF)
- [Table summarizing applicability of rules affecting recycling activities and facilities](#) (in PDF; help with PDF)

All other facilities that *separate* recyclable materials from a municipal solid waste stream must be permitted or

Regulatory Status of Specific Electronics

- When is it a waste?
 - When the recycler decides that the material can not be reused, further de-manufactured, or recycled



Regulatory Status of Specific Electronics Continued

- State and Federal Exemption
 - Processed scrap metal being recycled
 - Shredded circuit boards being recycled
 - 40 CFR 261.4 (a)(13-14).



Regulatory Status of Specific Electronics Continued

- Universal Waste Option
 - Hazardous Waste Batteries
 - Mercury Containing Equipment
- Used Equipment from Households (HHW)
- Cathode Ray Tubes (CRTs)
 - If being recycled it's not a solid waste
 - CFR 261.4(a)(23), must meet conditions of 261.39-41



Regulatory Requirements for Electronics Disposal

- Hazardous Waste
 - Conditionally Exempt Small Quantity Generator (CESQG)
 - Less than 220/lbs month of hazardous waste
 - Guidance RG-022, Classification of Industrial and Hazardous Waste and RG-234, Industrial and Hazardous Waste Rules for SQGs.



Regulatory Requirements for Electronics Disposal

- Discarded for Disposal or can't be used for intended purpose;
- No longer recyclable, or not an exempt material.



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Storm Water – TXR050000

- Multi-Sector General Permit for Storm Water
 - Triggered by Standard Industrial Code
 - Sector N, SIC Code 5093
 - Pollution Prevention Plan
 - Notice of Intent for Storm Water (Form – 10382)
 - Storm Water Discharges from Industrial Facilities:
Am I Regulated ?
 - Assistance Tools for Storm Water Permitting.

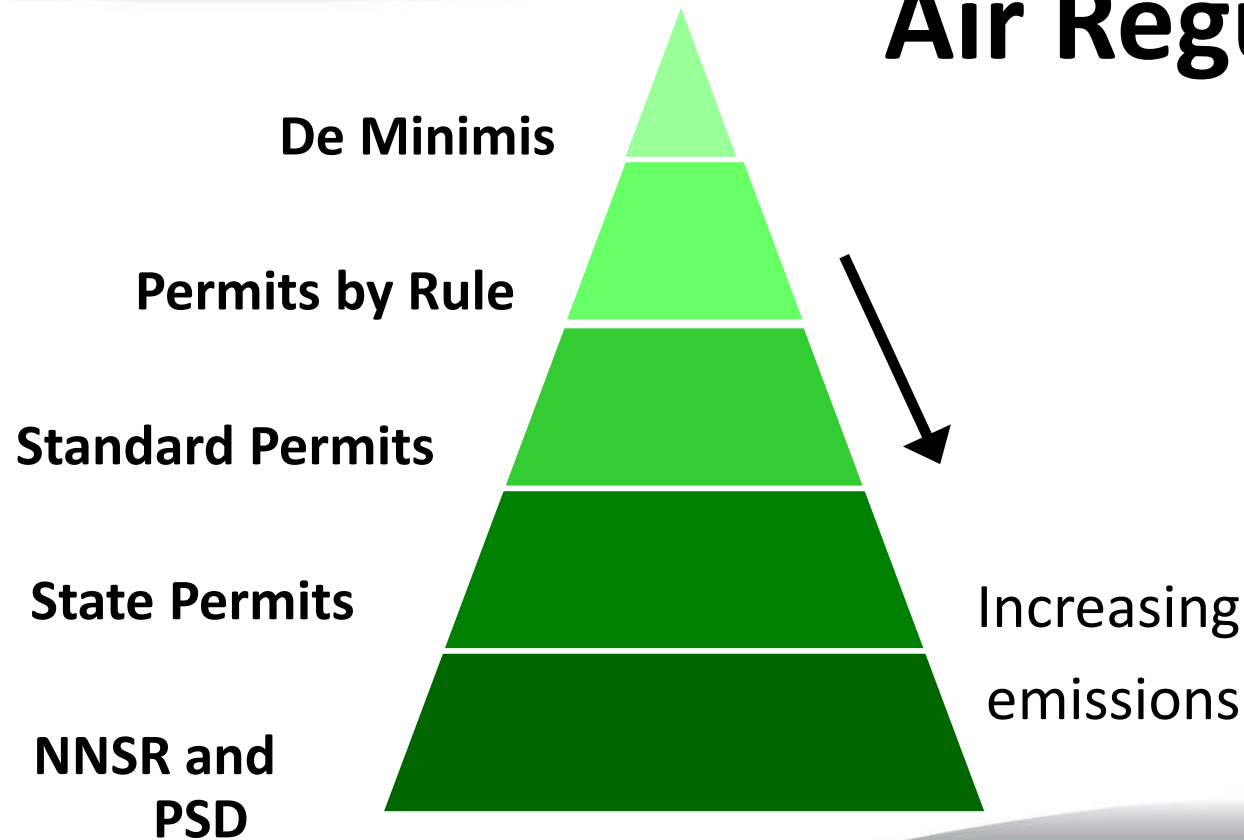


Conditional No Exposure Exclusion

- If SIC code Triggers Permit
- Exclusion can be claimed if materials are isolated from snow, rain, snowmelt, runoff by storm resistant shelters, or stored indoors
- Apply for TCEQ -10383
 - Application fee \$100
 - Be able to say NO to all 11 questions on the form



Air Regulations



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Air Continued PBRs

- Must meet **all** conditions exactly
 - Controls built into rule
- 30 TAC 106 Permits By Rule
- One Liners or Registration
- Possible distance set-back requirements



Air PBRs Continued

- PBRs
 - Fast processing time - 45 days max.
 - Fee required at time of registration (\$100 or \$450)
 - Types of activities: grinding, shredding, tools, soldering, handheld and manually operated
 - If an activity is not listed then a general PBR can be claimed with certain calculations under 30 TAC 106.261-262



Resources

- Regulations, Resources, and Guidance on Recycling Electronic Equipment

www.tceq.texas.gov/assistance/industry/e-recycling/erecycling-regs.html

- Small Business & Local Government Assistance E-Cycling page:

[www.tceq.texas.gov/assistance/industry/e-recycling/.](http://www.tceq.texas.gov/assistance/industry/e-recycling/)



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