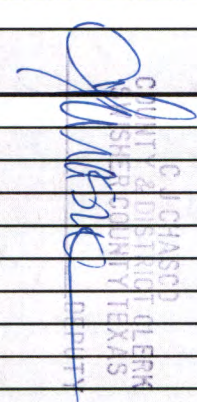


**Texas Commission on Environmental Quality
Form PI-1 General Application
General**

Date: _____
Permit #: _____
Company: _____

I. Applicant Information	
<p>I acknowledge that I am submitting an authorized TCEQ application workbook and any necessary attachments. Except for inputting the requested data and adjusting row height and column width, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections.</p>	I agree
A. Company Information	
Company or Legal Name:	Windstar, Inc
<p>Permits are issued to either the facility owner or operator, commonly referred to as the applicant or permit holder. List the legal name of the company, corporation, partnership, or person who is applying for the permit. We will verify the legal name with the Texas Secretary of State at (512) 463-5555 or at:</p>	
https://www.sos.state.tx.us	
Texas Secretary of State Charter/Registration Number (if given):	17516226549
B. Company Official Contact Information: must not be a consultant	
Prefix (Mr., Ms., Dr., etc.):	Ms.
First Name:	Lynn
Last Name:	Leavitt
Title:	Office Manager
Mailing Address:	6507 Highway 86
Address Line 2:	
City:	Tulia
State:	TX
ZIP Code:	79088
Telephone Number:	806-627-4227
Fax Number:	806-627-4228
Email Address:	lakeview@midplains.coop
C. Technical Contact Information: This person must have the authority to make binding agreements and representations on behalf of the applicant and may be a consultant. Additional technical contact(s) can be provided in a cover letter.	
Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Duncan
Last Name:	McCook
Title:	Manager of Regulatory Affairs
Company or Legal Name:	Texas Cotton Ginners' Association
Mailing Address:	211 W. Bagdad
Address Line 2:	
City:	Round Rock
State:	TX
ZIP Code:	78664
Telephone Number:	512-615-1104
Fax Number:	512-476-8215
Email Address:	duncan@tcga.org
D. Assigned Numbers	
<p>The CN and RN below are assigned when a Core Data Form is initially submitted to the Central Registry. The RN is also assigned if the agency has conducted an investigation or if the agency has issued an enforcement action. If these numbers have not yet been assigned, leave these questions blank and include a Core Data Form with your application submittal. See Section VI.B. below for additional information.</p>	
Enter the CN. The CN is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity.	CN601292733


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 COUNTY CLERK
 COUNTY TEXAS
 DALLAS

**Texas Commission on Environmental Quality
Form PI-1 General Application
General**

Date: _____
Permit #: _____
Company: _____

Enter the RN. The RN is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used when applying for authorization at a different location.	RN102307147
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II. Delinquent Fees and Penalties

Does the applicant have unpaid delinquent fees and/or penalties owed to the TCEQ? This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: https://www.tceq.texas.gov/agency/financial/fees/delin	No
---	----

III. Permit Information

A. Permit and Action Type (multiple may be selected, leave no blanks)

Additional information regarding the different NSR authorizations can be found at:
<https://www.tceq.texas.gov/permitting/air/guidance/authorize.html>

Select from the drop-down the type of action being requested for each permit type. **If that permit type does not apply, you MUST select "Not applicable".**

Provide all assigned permit numbers relevant for the project. Leave blank if the permit number has not yet been assigned.

Permit Type	Action Type Requested (do not leave blank)	Permit Number (if assigned)
Minor NSR (can be a Title V major source): <i>Not applicable, Initial, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Relocation/Alteration, Change of Location, Alteration, Extension to Start of Construction</i>	Renewal	43927
Special Permit: <i>Not applicable, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Alteration, Extension to Start of Construction</i>	Not applicable	
De Minimis: <i>Not applicable, Initial</i>	Not applicable	
Flexible: <i>Not applicable, Initial, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Alteration, Extension to Start of Construction</i>	Not applicable	
PSD: <i>Not applicable, Initial, Major Modification</i>	Not applicable	
Nonattainment: <i>Not applicable, Initial, Major Modification</i>	Not applicable	
HAP Major Source [FCAA § 112(g)]: <i>Not applicable, Initial, Major Modification</i>	Not applicable	
PAL: <i>Not applicable, Initial, Amendment, Renewal, Renewal/Amendment, Alteration</i>	Not applicable	
GHG PSD: <i>Not applicable, Initial, Major Modification, Voluntary Update</i>	Not applicable	

**Texas Commission on Environmental Quality
Form PI-1 General Application
General**

Date: _____
Permit #: _____
Company: _____

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B. MSS Activities

How are/will MSS activities for sources associated with this project be authorized?	De Minimis
List the permit number, registration number, and/or PBR number.	Not applicable

C. Consolidating NSR Permits

Will this permit be consolidated into another NSR permit with this action?	No

Will NSR permits be consolidated into this permit with this action?	No
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D. Incorporation of Standard Permits, Standard Exemptions, and/or Permits By Rule (PBR)

To ensure protectiveness, previously issued authorizations (standard permits, standard exemptions, or PBRs) including those for MSS, are incorporated into a permit either by consolidation or by reference. At the time of renewal and/or amendment, consolidation (in some cases) may be voluntary and referencing is mandatory. More guidance regarding incorporation can be found in 30 TAC § 116.116(d)(2), 30 TAC § 116.615(3) and in this memo:

https://www.tceq.texas.gov/assets/public/permitting/air/memos/pbr_spc06.pdf

Are there any standard permits, standard exemptions, or PBRs to be incorporated by reference?	No
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Are there any PBR, standard exemptions, or standard permits associated to be incorporated by consolidation? Note: Emission calculations, a BACT analysis, and an impacts analysis must be attached to this application at the time of submittal for any authorization to be incorporated by consolidation.	No
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E. Associated Federal Operating Permits

Texas Commission on Environmental Quality
Form PI-1 General Application
General

Date: _____
 Permit #: _____
 Company: _____

Is this facility located at a site required to obtain a site operating permit (SOP) or general operating permit (GOP) ?	No

IV. Facility Location and General Information

A. Location	
County: Enter the county where the facility is physically located.	Swisher
TCEQ Region	Region 1
County attainment status as of Sept. 23, 2019	attainment or unclassified for all pollutants
Street Address:	6507 Highway 86
City: If the address is not located in a city, then enter the city or town closest to the facility, even if it is not in the same county as the facility.	Tulia
ZIP Code: Include the ZIP Code of the physical facility site, not the ZIP Code of the applicant's mailing address.	79088
Site Location Description: If there is no street address, provide written driving directions to the site. Identify the location by distance and direction from well-known landmarks such as major highway intersections.	
Use USGS maps, county maps prepared by the Texas Department of Transportation, or an online software application such as Google Earth to find the latitude and longitude.	
Latitude (in degrees, minutes, and nearest second (DDD:MM:SS)) for the street address or the destination point of the driving directions. Latitude is the angular distance of a location north of the equator and will always be between 25 and 37 degrees north (N) in Texas.	34-31-48
Longitude (in degrees, minutes, and nearest second (DDD:MM:SS)) for the street address or the destination point of the driving directions. Longitude is the angular distance of a location west of the prime meridian and will always be between 93 and 107 degrees west (W) in Texas.	101-55-04
Is this a project for a lead smelter, concrete crushing facility, and/or a hazardous waste management facility?	No
B. General Information	
Site Name:	Lakeview Gin
Area Name: Must indicate the general type of operation, process, equipment or facility. Include numerical designations, if appropriate. Examples are Sulfuric Acid Plant and No. 5 Steam Boiler. Vague names such as Chemical Plant are not acceptable.	Cotton Gin
Are there any schools located within 3,000 feet of the site boundary?	No

**Texas Commission on Environmental Quality
Form PI-1 General Application
General**

Date: _____
Permit #: _____
Company: _____

C. Portable Facility	
Permanent or portable facility?	Permanent

D. Industry Type	
Principal Company Product/Business:	cotton ginning
A list of SIC codes can be found at: https://www.naics.com/sic-codes-industry-drilldown/	
Principal SIC code:	0724
NAICS codes and conversions between NAICS and SIC Codes are available at: https://www.census.gov/eos/www/naics/	
Principal NAICS code:	115111

E. State Senator and Representative for this site	
This information can be found at (note, the website is not compatible to Internet Explorer): https://wrm.capitol.texas.gov/	
State Senator:	Kel Seliger
District:	31
State Representative:	Ken King
District:	88

V. Project Information

A. Description	
Provide a brief description of the project that is requested. (Limited to 500 characters).	

B. Project Timing	
Authorization must be obtained for many projects before beginning construction. Construction is broadly interpreted as anything other than site clearance or site preparation. Enter the date as "Month Date, Year" (e.g. July 4, 1776).	
Projected Start of Construction:	not applicable
Projected Start of Operation:	not applicable

C. Enforcement Projects	
Is this application in response to, or related to, an agency investigation, notice of violation, or enforcement action?	No

D. Operating Schedule	
Will sources in this project be authorized to operate 8760 hours per year?	No
If no, provide details in your permit application materials.	
Does this facility operate seasonally?	Yes
If yes, describe the operating schedule.	cotton ginning season

VI. Application Materials

All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. (30 TAC § 116.116)	
A. Confidential Application Materials	
Is confidential information submitted with this application?	No

Texas Commission on Environmental Quality
Form PI-1 General Application
General

Date: _____
Permit #: _____
Company: _____

B. Is the Core Data Form (Form 10400) attached?	No
https://www.tceq.texas.gov/assets/public/permitting/centralregistry/10400.docx	
C. Is a current area map attached?	N/A
D. Is a plot plan attached?	N/A
E. Is a process flow diagram attached?	N/A
F. Is a process description attached?	N/A
G. Are detailed calculations attached? Calculations must be provided for each source with new or changing emission rates. For example, a new source, changing emission factors, decreasing emissions, consolidated sources, etc. You do not need to submit calculations for sources which are not changing emission rates with this project. Please note: the preferred format is an electronic workbook (such as Excel) with all formulas viewable for review. It can be emailed with the submittal of this application workbook.	Yes
Are emission rates and associated calculations for planned MSS facilities and related activities attached?	Yes
H. Is a material balance (Table 2, Form 10155) attached?	N/A

Texas Commission on Environmental Quality
Form PI-1 General Application
General

Date: _____
Permit #: _____
Company: _____

I. Is a list of MSS activities attached?	N/A
J. Is a discussion of state regulatory requirements attached, addressing 30 TAC Chapters 101, 111, 112, 113, 115, and 117?	N/A
K. Are all other required tables, calculations, and descriptions attached?	Yes

VII. Signature

The owner or operator of the facility must apply for authority to construct. The appropriate company official (owner, plant manager, president, vice president, or environmental director) must sign all copies of the application. The applicant's consultant cannot sign the application. **Important Note: Signatures must be original in ink, not reproduced by photocopy, fax, or other means, and must be received before any permit is issued.**

The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382; the Texas Clean Air Act (TCAA); the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.

Name:	Lynn Leavitt
Signature:	
<i>Original signature is required.</i>	
Date:	

**Texas Commission on Environmental Quality
Form PI-1 General Application
Renewals**

Date: _____
Permit #: _____
Company: _____

I. Type of Permit Renewal and Associated Actions

A. Current Operations	
Do all dockside vessel emissions associated with the facility comply with all rules and regulations of the commission and with the intent of the TCAA, including protection of the health and property of the public and minimization of emissions to the extent possible, consistent with good air pollution practices? (30 TAC § 116.311(a)(1))	N/A
Is the facility being operated in accordance with all requirements and conditions of the existing permit, including representations in the application for permit to construct and subsequent amendments, and any previously granted renewal, unless otherwise authorized for a qualified facility?	Yes
Are there any permit actions pending before the TCEQ?	No
Have any qualified facility changes under 30 TAC § 116.116(e) occurred since originally issued or last renewed?	No
Have emission factors changed since the last permitting action?	Yes

B. Changes Made Since Last Amendment or Renewal

Have any of the following changes been made to or proposed for the facilities covered by this permit since it was last amended or renewed and are not currently authorized by a PBR, standard permit, or other authorization? *Select*

Construction of a new emission source?	No
The emission of new chemical species or a change in character of emissions?	No
An increase in emission rates on a short term or annual basis? (This includes increases of a criteria pollutant as well as increases of a chemical species.)	No
A change in the method of emission control if the emission control is a source itself, such as a thermal oxidizer or flare?	No
Are new pollutants being added in the renewal process, not currently listed in the permit?	No

If "yes" to any question in Section B above is selected, a concurrent permit amendment is required before the permit can be renewed.

II. Federal Regulatory Questions

Indicate if any of the following requirements apply to the proposed facility. Note that some federal regulations apply to minor sources. Enter all applicable Subparts.

A. Title 40 CFR Part 60	
Do NSPS subpart(s) apply to a facility in this application?	No
B. Title 40 CFR Part 61	

**Texas Commission on Environmental Quality
Form PI-1 General Application
Renewals**

Date: _____
Permit #: _____
Company: _____

Do NESHAP subpart(s) apply to a facility in this application?	No

C. Title 40 CFR Part 63

Do MACT subpart(s) apply to a facility in this application?	No

III. Renewal Certification

A. Renewal Certification Eligibility Determination

Select "Yes" or "No" to answer each question.

Does the permitted facility emit an air contaminant on the watch list and is the permitted facility located in the area on the watch list?	No
Is the permitted facility required to participate in the Houston/Galveston Area (HGA) cap and trade program for highly reactive VOCs? In addition, do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)?	No
Does the company have an unsatisfactory compliance history?	No
Is the permit a Flexible Permit or an Existing Facilities Flexible Permit?	No
Does this permit require the inclusion of marine loading emissions?	No
Is there a concurrent amendment application being submitted for this permit?	No
Is there a permit amendment application currently under review for this permit?	No
Is the addition of Compliance Assurance Monitoring conditions required with this renewal?	No
Are scheduled maintenance, startup, or shutdown emissions not authorized by PBR or standard permit, required to be authorized in the permit?	No
Are there any facilities that have been shutdown that are proposed to be removed from the permit at the time of renewal?	No
Have the emissions factors changed for any source or have the emissions calculation methodology changed for any source?	Yes

Answer all questions above. If any answers are Yes, Renewal Certification cannot be completed. Be sure to change your response on the General Sheet, Section III if you selected renewal certification. Then continue to the next sheet.

Texas Commission on Environmental Quality
Form PI-1 General Application
Unit Types - Emission Rates

Date: _____
 Permit #: _____
 Company: _____

Permit primary industry (must be selected for workbook to function)	Mechanical / Agricultural / Construction
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Action Requested (only 1 action per FIN)	Include these emissions in annual (tpy) summary?	Facility ID Number (FIN)	Emission Point Number (EPN)	Source Name	Pollutant	Current Short-Term (lb/hr)	Current Long-Term (tpy)	Consolidated Current Short-Term (lb/hr)	Consolidated Current Long-Term (tpy)	Proposed Short-Term (lb/hr)	Proposed Long-Term (tpy)	Short-Term Difference (lb/hr)	Long-Term Difference (tpy)	Unit Type (Used for reviewing BACT and Monitoring Requirements)
Renew	Yes			Precleaning	PM					10.3	6.44	10.3	6.44	Cotton Gin
					PM10					4.84	3.03	4.84	3.03	
					PM2.5					0.3	0.19	0.3	0.19	
Renew	Yes			Burners	PM					0.08	0.07	0.08	0.07	Heater ≤ 40 MMBtu/hr
					PM10					0.08	0.07	0.08	0.07	
					PM2.5					0.08	0.07	0.08	0.07	
					VOC					0.06	0.05	0.06	0.05	
					NOx					1	0.94	1	0.94	
					CO					0.84	0.79	0.84	0.79	
					SO2					0.01	0.01	0.01	0.01	
Renew	Yes			Trash System	PM					16.3	10.19	16.3	10.19	Cotton Gin
					PM10					6.48	4.05	6.48	4.05	
					PM2.5					0.45	0.28	0.45	0.28	
Renew	Yes			Lint System	PM					44.65	27.9	44.65	27.9	Cotton Gin
					PM10					11.55	7.22	11.55	7.22	
					PM2.5					0.66	0.41	0.66	0.41	
Renew	Yes			Trash Handling	PM	3	1.88			3	1.88	0	0	Cotton Gin
					PM10	1.5	0.94			0.96	0.6	-0.54	-0.34	
					PM2.5					0.06	0.04	0.06	0.04	
Remove	No			Cotton Gin	PM	53.82	33.66					-53.82	-33.66	Cotton Gin
					PM10	26.95	16.87					-26.95	-16.87	
					VOC	0.06	0.05					-0.06	-0.05	
					NOx	1	0.94					-1	-0.94	
					CO	0.84	0.79					-0.84	-0.79	
					SO2	0.01	0.01					-0.01	-0.01	
												0	0	
												0	0	
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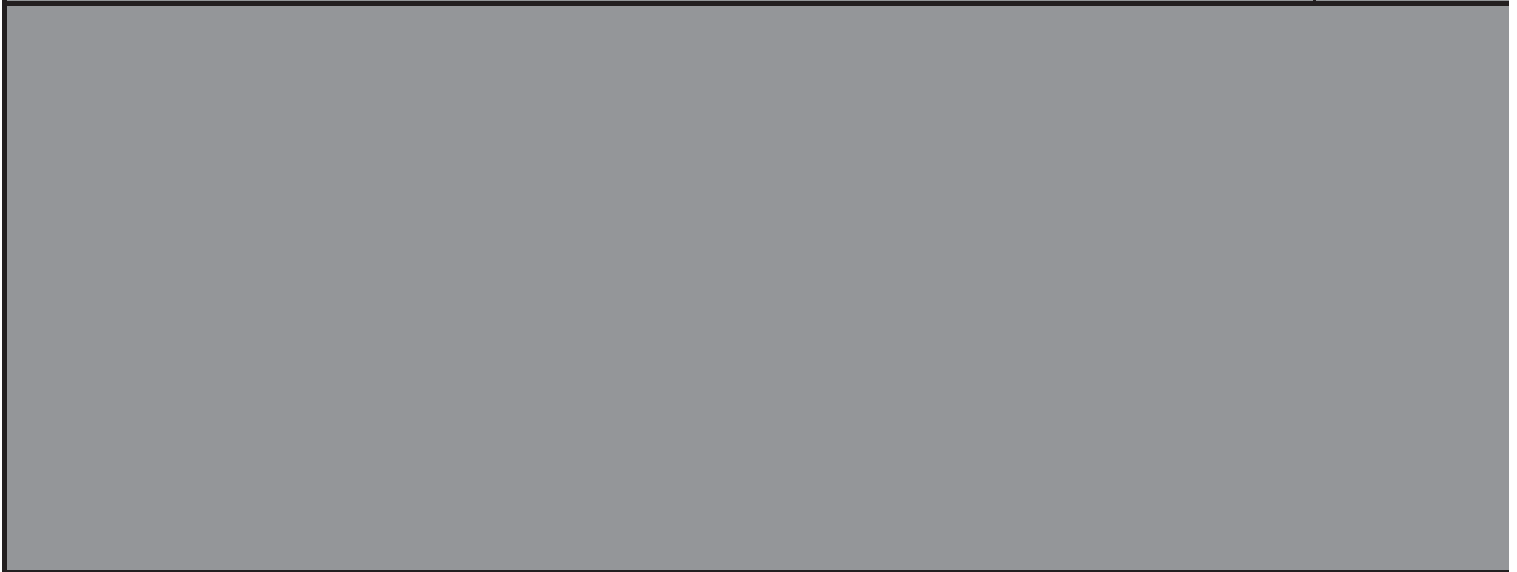
Texas Commission on Environmental Quality
Form PI-1 General Application
Public Notice

Date: _____
Permit #: _____
Company: _____

I. Public Notice Applicability

A. Application Type

Is this an application for a renewal?	Yes



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Texas Commission on Environmental Quality
Form PI-1 General Application
Public Notice

Date: _____
 Permit #: _____
 Company: _____

Pollutant			Proposed Long-Term (tpy)			
VOC			0.05			
PM			46.48			
PM ₁₀			14.97			
PM _{2.5}			0.99			
NO _x			0.94			
CO			0.79			
SO ₂			0.01			
Pb			0.00			

* Notice is required for PM, PM10, and PM2.5 if one of these pollutants is above the threshold.

** Notice of a GHG action is determined by action type. Initial and major modification always require notice. Voluntary updates require a consolidated notice if there is a change to BACT. Project emission increases of CO2e (CO2 equivalent) are not relevant for determining public notice of GHG permit actions.

C. Is public notice required for this project as represented in this workbook? If no, proceed to Section III Small Business Classification. Note: public notice applicability for this project may change throughout the technical review.	Yes
D. Are any HAPs to be authorized/re-authorized with this project? The category "HAPs" must be specifically listed in the public notice if the project authorizes (reauthorizes for renewals) any HAP pollutants.	No

II. Public Notice Information

Complete this section if public notice is required (determined in the above section) or if you are not sure if public notice is required.

A. Contact Information

Enter the contact information for the **person responsible for publishing**. This is a designated representative who is responsible for ensuring public notice is properly published in the appropriate newspaper and signs are posted at the facility site. This person will be contacted directly when the TCEQ is ready to authorize public notice for the application.

Prefix (Mr., Ms., Dr., etc.):	Ms.
First Name:	Lynn
Last Name:	Leavitt
Title:	Office Manager
Company Name:	Windstar, Inc - Lakeview Gin

**Texas Commission on Environmental Quality
Form PI-1 General Application
Public Notice**

Date: _____
Permit #: _____
Company: _____

Mailing Address:	6507 Highway 86
Address Line 2:	
City:	Tulia
State:	TX
ZIP Code:	79088
Telephone Number:	806-627-4227
Fax Number:	806-627-4228
Email Address:	lakeview@midplains.coop

Enter the contact information for the **Technical Contact**. This is the designated representative who will be listed in the public notice as a contact for additional information.

Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Duncan
Last Name:	McCook
Title:	Manager of Regulatory Affairs
Company Name:	Texas Cotton Ginners' Association
Mailing Address:	211 W Bagdad Ave
Address Line 2:	
City:	Round Rock
State:	TX
ZIP Code:	78664
Telephone Number:	512-615-1104
Fax Number:	512-476-8215
Email Address:	duncan@tcga.org

B. Public place

Place a copy of the full application (including all of this workbook and all attachments) at a public place in the county where the facilities are or will be located. You must state where in the county the application will be available for public review and comment. The location must be a public place and described in the notice. A public place is a location which is owned and operated by public funds (such as libraries, county courthouses, city halls) and cannot be a commercial enterprise. You are required to pre-arrange this availability with the public place indicated below. The application must remain available from the first day of publication through the designated comment period.

If this is an application for a PSD, nonattainment, or FCAA §112(g) permit, the public place must have internet access available for the public as required in 30 TAC § 39.411(f)(3).

If the application is submitted to the agency with information marked as Confidential, you are required to indicate which specific portions of the application are not being made available to the public. These portions of the application must be accompanied with the following statement: ***Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087.***

Name of Public Place:	Swisher County Clerk's Office
Physical Address:	119 S. Maxwell Ave
Address Line 2:	
City:	Tulia
ZIP Code:	79088
County:	Swisher
Has the public place granted authorization to place the application for public viewing and copying?	Yes

Texas Commission on Environmental Quality
Form PI-1 General Application
Public Notice

Date: _____
 Permit #: _____
 Company: _____

C. Alternate Language Publication

In some cases, public notice in an alternate language is required. If an elementary or middle school nearest to the facility is in a school district required by the Texas Education Code to have a bilingual program, a bilingual notice will be required. If there is no bilingual program required in the school nearest the facility, but children who would normally attend those schools are eligible to attend bilingual programs elsewhere in the school district, the bilingual notice will also be required. If it is determined that alternate language notice is required, you are responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

Is a bilingual program required by the Texas Education Code in the School District?	No
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Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?	No
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Texas Commission on Environmental Quality
Form PI-1 General Application
Public Notice

Date: _____
 Permit #: _____
 Company: _____

III. Small Business Classification

Complete this section to determine small business classification. If a small business requests a permit, agency rules (30 TAC § 39.603(f)(1)(A)) allow for alternative public notification requirements if all of the following criteria are met. If these requirements are met, public notice does not have to include publication of the prominent (12 square inch) newspaper notice.

Does the company (including parent companies and subsidiary companies) have fewer than 100 employees or less than \$6 million in annual gross receipts?	No
Small business classification:	No

Texas Commission on Environmental Quality
Form PI-1 General Application
Fees

Date: _____
Permit #: _____
Company: _____

V. Renewal Fee	
The fee for renewal is based on the total annual allowable emissions from the permitted facility to be renewed. If this project includes an amendment, the amendment permit fee will be calculated separately.	
Enter the total allowable emissions (tons per year). The total emissions must include those represented in any PBR or standard permits to be incorporated by consolidation into this permit.	48.27
Permit fee due	\$ 1,944.56

VI. Total Fees	
Renewal Fee	\$ 1,944.56

VII. Payment Information	
A. Payment One (required)	
Was the fee paid online?	Yes
Enter the fee amount:	\$ 1,944.56
Enter the check, money order, ePay Voucher, or other transaction number:	
Enter the Company name as it appears on the check:	

Texas Commission on Environmental Quality
Form PI-1 General Application
Fees

Date: _____
Permit #: _____
Company: _____

**Permit Checklist
of
Lakeview Gin
Tulia, Swisher County, Texas**

1. Cover Letter is attached.
2. The facility history previously submitted is accurate, and permit is up to date.
3.
 - a. Maximum hourly baling rate expected: 20 bales per hour
 - b. Maximum annual baling rate expected: 25,000 bales per yr
 - c. If expansion, previous hourly baling rate: 20 bales per hour
 - d. Will motes be baled at this gin? YES motes baled
 - e. What percent received in modules? 100 percent modules
 - f. Is Burr Hopper Completely Enclosed?
(Walls and Doors) No.
 - g. Schools within 3000 feet of the gin? No
 - h. Normal ginning season for this gin? Nov. 1 – Jan. 15
 - i. Burners:

B2 Drier	3 MBtu/hr	Natural Gas
B3 Drier	3 MBtu/hr	Natural Gas
B4 Humidifier	3 MBtu/hr	Natural Gas
B5 Burner	1 MBtu/hr	Natural Gas
 - j. Fuel used: See above
4. The block flow diagram previously submitted is accurate.
5. The written process description previously submitted is accurate.
6. The plot plan previously submitted is accurate.
7. The fan/abatement device chart previously submitted is accurate.
8. The cyclone tables previously submitted are accurate.
9. The burr hopper operation previously submitted is accurate.
10. The maintenance and housekeeping explanation previously submitted is accurate.
11. The highway map previously submitted is accurate.
12. The land use map describing structures with a 3,000 ft. radius previously submitted is accurate.
13. The TCEQ Table 30R is in workbook.
14. The application fee is attached.
15. A certificate of Good Standing is not required.

Cotton Gin Input Data

On this worksheet, the operational data and plant design for the cotton gin and the controls used for each emission point will be entered in the tan cells.

For the Control Type column in the "Total Particulate Emissions Calculation Table" below, enter the number corresponding to the controls used for each emission point as follows:

No controls = 0

High-efficiency cyclones = 1

Small mesh screens = 2

High-efficiency cyclones in series = 3

Plenum chamber followed by cyclones = 4

Drum filter = 5

Flutter filter = 6

To effectively zero out an emission point = 7

Operational Data and Plant Design

Maximum number of Bales / Hour?	20
Maximum number of Bales / Year?	25,000
Is the burr hopper enclosed or controlled (Yes or No)?	No
Dryer fuel (1=Natural Gas, 2=Butane, 3=Propane)?	1
Total Firing Rate (Btu/hr)?	10,000,000

Total Particulate Emissions Calculation Table

Emission Point	Abatement Device Sampled	lb/bale (g)	Control Type	Proposed Abatement	Factor (a - f)	Emissions (lb/bale)
1st dryer cleaner	Cyclones	0.3340	1	Cyclones	1	0.3340
2nd dryer cleaner	Cyclones	0.1290	1	Cyclones	1	0.1290
3rd dryer cleaner	Cyclones	0.0520	1	Cyclones	1	0.0520
Total Precleaning System Emission Rate						0.5150
Unloading fan	Cyclones	0.2960	1	Cyclones	1	0.2960
Overflow	Cyclones	0.0630	1	Cyclones	1	0.0630
Master Trash	Cyclones	0.4110	1	Cyclones	1	0.4110
Cyclone Robber	Cyclones	0.0450	1	Cyclones	1	0.0450
Total Trash System Emission Rate						0.8150
1st lint cleaner	Cyclones	0.2396	2	Small Mesh	5	1.1979
2nd lint cleaner	Cyclones	0.0773	2	Small Mesh	5	0.3864
Battery condenser	Cyclones	0.0700	2	Small Mesh	5	0.3500
#1 Mote	Cyclones	0.1050	1	Cyclones	1	0.1050
#2 Mote	Cyclones	0.0431	1	Cyclones	1	0.0431
Mote Robber (h)	Cyclones	0.1110	1	Cyclones	1	0.1110
Mote Trash	Cyclones	0.0390	1	Cyclones	1	0.0390
Total Lint System Emission Rate						2.2324

Notes:

(a) Cyclones are assumed to be 90% efficient in removing suspended particulate matter.

(b) Small mesh screens are assumed to be 50% efficient in removing suspended particulate matter.

(c) Series cyclones are assumed to be 50% more efficient than single cyclones for Total PM & PM10, and 15% more efficient on PM2.5.

(d) Emission rates for plenum chambers based on the same calculations used from old TCEQ emission factors. These were based on averaging the old picker and stripper emission factors. All lint cleaner emission points use factor from old mote emission point, which gives the plenum the lowest amount of credit.

(e) Drum filters are assumed to be 90% efficient for PM and PM10 and 50% efficient for PM2.5 and are assumed to be installed in series with cyclones. Filter efficiencies from Osprey filter media data.

(f) Flutter filters are assumed to be 50% efficient in removing suspended particulate matter.

(g) Sampling results from the USDA Seven Gin National Test.

(h) To be conservative, mote robber exhaust should not be zeroed when lint cleaners exhaust to fine mesh screen.

Maximum Allowable Emission Rates Table (MAERT)

The maximum allowable emission rates are calculated in other worksheets and then displayed in this worksheet. Therefore, no changes should be made to this worksheet.

Maximum Allowable Emission Rates Table (MAERT)			
Source Name	Air Contaminant Name	Emission Rates	
		lb/hr	ton/yr
Precleaning System	PM	10.30	6.44
	PM10	4.84	3.03
	PM2.5	0.30	0.19
Burners	PM	0.08	0.07
	PM10	0.08	0.07
	PM2.5	0.08	0.07
	VOC	0.06	0.05
	NOx	1.00	0.94
	CO	0.84	0.79
	SO2	0.01	0.01
Trash System	PM	16.30	10.19
	PM10	6.48	4.05
	PM2.5	0.45	0.28
Lint System	PM	44.65	27.90
	PM10	11.55	7.22
	PM2.5	0.66	0.41
Trash Handling	PM	3.00	1.88
	PM10	0.96	0.60
	PM2.5	0.06	0.04

Summary for Technical Review

The proposed emissions are calculated in other worksheets and then displayed in this worksheet. Therefore, no changes should be made to this worksheet.

The total PM10 short-term emissions (lb/hr) shown below can be compared to the maximum allowable PM10 emission rate (and required setback distance) for the Air Quality Standard Permit for Cotton Gin Facilities and Cotton Burr Tub Grinders to see if the cotton gin could potentially be authorized by the standard permit.

Summary of Emissions

Pollutant	Proposed Emissions (lb/hour)	Proposed Emissions (tpy)
PM	74.33	46.48
PM10	23.91	14.97
PM2.5	1.55	0.99
VOC	0.06	0.05
NOx	1.00	0.94
CO	0.84	0.79
SO2	0.01	0.01
		16.75

Process Weight Allowable

This worksheet is used to verify that the calculated emission rates for the precleaning, trash, and lint systems do not exceed the process weight allowable (PWA) in 30 TAC Chapter §111.171 (Emissions Limits Based on Process Weight Method [Agricultural Sources]).

The hourly baling rate is used to calculate how much cotton in pounds is processed per hour assuming it takes 1,750 pounds of field cotton to make 1 bale of cotton. Depending on whether this amount is above 40,000 pounds per hour, a formula is used to calculate the Chapter 111 maximum allowable hourly PM emission rate based on process weight (process weight allowable). The variable "P" in the formula is the process weight in tons per hour.

This PWA is then compared to the hourly PM emission rates for each system to verify that the emission rates do not exceed the PWA. This check is performed for each system independently because §111.171 specifically states that "No person affected by the Texas Clean Air Act, §3.10(e), may cause, suffer, allow, or permit emissions of particulate matter from any or all sources associated with a specific process to exceed the allowable levels specified" and each system is considered to be a specific process.

[http://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=111&rl=171](http://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=111&rl=171)

Process Weight Allowable											
Hourly Baling Rate (bales/hour)	Pounds of Field Cotton per Bale (lb/bale)	Field Cotton Processed (lb/hour)	Above or Below 40,000 lb/hour Processed?	Chapter 111 Formula	Process Weight Allowable (lb/hour)	Precleaning System PM Emission Rate (lb/hour)	Process weight check for Precleaning System (OK?)	Trash System PM Emission Rate (lb/hour)	Process weight check for Trash System (OK?)	Lint System PM Emission Rate (lb/hour)	Process weight check for Lint System (OK?)
20	1,750	35,000	Below	$3.12 * (P^{0.985})$	52.31	10.30	OK	16.30	OK	44.65	OK