PEANUT HANDLING OPERATIONS
AIR QUALITY STANDARD PERMIT SUMMARY DOCUMENT

I. EXECUTIVE SUMMARY

The Texas Commission on Environmental Quality (TCEQ or commission) issues a new air quality standard permit for peanut handling operations. The new standard permit can be used to authorize peanut handling operations on or after the effective date of the standard permit.

II. EXPLANATION AND BACKGROUND OF AIR QUALITY STANDARD PERMIT

The New Source Review (NSR) Program under Title 30 Texas Administrative Code (30 TAC) Chapter 116, Control of Air Pollution by Permits for New Construction or Modification, requires any person who plans to construct any new facility or to engage in the modification of any existing facility which may emit air contaminants into the air of the state to obtain a permit pursuant to 30 TAC §116.111, General Application, or satisfy the conditions of a standard permit, a flexible permit, a permit by rule, or the criteria for a de minimis facility or source before any actual work begins on the facility. A standard permit authorizes the construction or modification of new or existing facilities which are similar in terms of operations, processes, and emissions. A standard permit provides an efficient mechanism for qualifying facilities to obtain authorization as an alternative to a case-specific air quality permit.

The standard permit provides a streamlined preconstruction authorization process that can be used for any peanut handling operation complying with the standard permit requirements and that is not prohibited by some other state or federal permitting statute or regulation. Additionally, the executive director authorizes peanut handling operations and associated facilities through permit by rule (PBR) under 30 TAC §106.261, Facilities (Emission Limitations) or under 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification. PBR §106.261 will remain an authorization mechanism for peanut handling operations.

The commission has included requirements to minimize emissions and establish property line distance limitations. These requirements are based on air dispersion modeling and an impacts analysis performed to verify the protectiveness of the standard permit. Additionally, the standard permit contains requirements that implement best available control technology (BACT), which is required under Texas Health and Safety Code (THSC), §382.0518(b), Preconstruction Permit and §382.05195(a), Standard Permit. The standard permit also contains provisions to ensure that any facility authorized by the standard permit does not cause an exceedance of the National Ambient Air Quality Standards (NAAQS). The site-wide emission rate of particulate matter less than or equal to ten microns in diameter (PM_{10}) will determine the setback distance that is necessary to ensure compliance with the NAAQS. The standard permit also includes control provisions. The commission has concluded an evaluation that shows that the standard permit for peanut handling operations is protective of the public health and welfare.

The modeling results demonstrated that a peanut handling operation with site-wide emissions of PM_{10} less than or equal to 9.60 pounds per hour (lb/hr) does not require a setback distance from the property line to meet the NAAQS. For site-wide emissions greater than 9.60 lb/hr, a graph

has been developed depicting the required minimum facility setback distance from the nearest property line required to ensure that the total site-wide allowable PM_{10} emissions do not exceed the NAAQS.

III. OVERVIEW OF AIR QUALITY STANDARD PERMIT

The commission issues this air quality standard permit authorizing peanut handling operations under the authority of the Texas Clean Air Act (TCAA) in THSC, §382.05195, Standard Permit and 30 TAC Chapter 116, Subchapter F, Standard Permits.

The standard permit authorizes typical peanut handling operations, including associated peanut dryers, screens, aspirators, cleaners, shellers, stoners, milling equipment, and pelletizing equipment. However, the standard permit is not intended to cover all possible facility configurations or operating scenarios. Owners or operators of facilities that cannot meet the standard permit conditions may apply for a case-by-case air quality permit under 30 TAC §116.111, General Application, or other applicable authorization mechanism.

IV. PERMIT CONDITION ANALYSIS AND JUSTIFICATION

This standard permit requires owners or operators of peanut handling operations to comply with certain administrative requirements, including recordkeeping, as well as general requirements, including housekeeping procedures, best management practices, planned maintenance, start-up and shutdown (MSS) limitations, and specific operating procedures to minimize off-property impacts from peanut handling and drying. Facilities are also required to meet distance requirements to be within acceptable off-property concentrations of PM_{10}. Registration or renewal of registration every ten years is not required.

This standard permit authorizes the air emissions (including fugitive emissions) associated with peanut handling operations (including peanut dryers, screens, aspirators, cleaners, shellers, stoners, milling equipment, and pelletizing equipment) that meet the applicable conditions of the standard permit.

Applicability

Section (1) outlines the applicability of the standard permit (what can and cannot be authorized under the standard permit). Subsection (A) specifies that this standard permit authorizes air emissions from peanut handling operations including peanut dryers, screens, aspirators, cleaners, shellers, stoners, milling equipment, pelletizing equipment, and any fugitive emissions associated with peanut handling operations. This condition is intended to specify the scope of the standard permit authorization.

Subsection (B) prohibits the use of this standard permit to authorize any peanut handling operation that has on-site fuel-fired equipment with an individual heating rate of ten million British thermal units per hour (Btu/hr) or greater (or a combined heating rate of greater than 80 million Btu/hr). This restriction is based on concerns associated with large facility throughputs and emission rates, and the potential for these factors to result in a facility's non-compliance with the NAAQS. To address compliance with BACT and nitrogen oxide (NO_X) limitations in 30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds, the cutoff for eligibility under this standard permit was determined to be a heating rate of less than ten million Btu/hr.

This limit is used because BACT is no controls for most units with a heating rate less than ten million Btu per hour, and most state and federal NO_X requirements do not apply at this heating rate. The NO_X requirements in 30 TAC Chapter 117, Subchapter D, Combustion Control at Minor Sources in Ozone Nonattainment Areas, for small combustion sources will still apply to those facilities in the specified counties, and this standard permit does not exempt those facilities from having to meet any applicable requirements of 30 TAC Chapter 117, as specified in subsection (4)(A) of this standard permit. The combined heating rate limitation of 80 million Btu/hr is specified since it was the maximum parameter provided for modeling off-property impacts from products of combustion. The limitation is a reasonable worst-case scenario based on information in existing permit files for peanut handling operations.

Subsection (C) prohibits the use of this standard permit for any facility that constitutes a new major stationary source or major modification as defined by 30 TAC Chapter 116. This standard permit also cannot be used for authorization of facilities located at a major stationary source. These restrictions regarding use of the standard permit are based on concerns associated with large facility throughputs and emission rates, and the potential to result in a facility's non-compliance with the NAAQS. Additionally, 30 TAC Chapter 116 does not allow facilities defined as major with regard to federal NSR to be authorized by a standard permit.

Subsection (D) prohibits the use of this standard permit to authorize any increase of an air contaminant specifically prohibited by a 30 TAC Chapter 116 air quality permit that exists at the site.

Subsection (E) specifies that this standard permit cannot be used in conjunction with any other Chapter 116 air quality permit, standard permit, or PBR, with the exception of standard permits and PBRs to authorize planned maintenance activities and facilities. The entire peanut handling operation must be authorized under this standard permit. If other authorizations for the operation exist, these authorizations must be voided if authorization under this standard permit is to occur. This requirement does not preclude the use of permits, standard permits, and PBRs to authorize other facilities, located at the site, that are not associated with the peanut handling operation. However, all site-wide emission limitations in this standard permit must be met. The restrictions in subsections (D) and (E) are included to limit the cumulative effects of specific contaminants and to ensure the protection of health and human welfare. Subsection (E) does allow standard permits and PBRs to be used in conjunction with this standard permit if the standard permits and PBRs are used to authorize emissions from planned maintenance activities and facilities as specified in section (6) of this standard permit. Additional information regarding the authorization of planned maintenance, start-up, and shutdown emissions can be found in the Planned Maintenance, Start-up, and Shutdown (MSS) portion of this technical summary.

Subsection (F) specifies that this standard permit cannot be used if the total site-wide emissions do not meet the emission rate requirements specified in sections (5) and (6) of this standard permit. This includes PM_{10} emissions from all facilities at the site, even facilities that are not associated with the peanut handling operation. This condition limits cumulative emissions and reinforces the site-wide emission rate requirements in sections (5) and (6) to maintain the protectiveness of this standard permit.

Definitions

Section (2) contains definitions of peanut handling operation and site in subsections (A) and (B). These definitions are intended to specify and, where necessary, limit the scope of the standard permit's authorization. Permitting is based on the concepts of facility, facilities, related facilities, and related increases, which may involve equipment throughout a given site. Many aspects of permitting are evaluated on a site basis to account for all sources of pollutants that may impact surrounding areas.

General Administrative Requirements

Section (3) addresses the administrative requirements associated with this standard permit. All standard permits must meet the requirements in 30 TAC Chapter 116, Subchapter F (including §§116.604 through 116.615). However, the TCEQ can waive or modify some of these requirements, and has elected to do so for this standard permit. Section 116.610(a)(1), Applicability, requires that a standard permit project resulting in a net emission increase must meet the emission limitations of 30 TAC §106.261, Facilities (Emission Limitations), unless otherwise specified in the standard permit. The contaminant of concern from peanut handling operations is primarily PM_{10}, and these operations do not emit significant amounts of the air contaminants that 30 TAC §106.261 addresses. In addition, the commission has determined that the industry specific emission rate limitations and distance requirements in this standard permit justify this exemption from 30 TAC §106.261. Therefore, in section (3), the TCEQ exempts peanut handling operations authorized under this standard permit from the requirements of 30 TAC §116.610(a)(1).

Section (3) also exempts facilities meeting the applicable requirements of this standard permit from registration, fee, and start-up notification requirements in 30 TAC §§116.611(a) and (b), Registration to Use a Standard Permit; 116.614, Standard Permit Fees; and 116.615(5), Start-up Notification (General Conditions). The exemption from the registration requirements in 30 TAC §116.611 only addresses §116.611(a) and (b) and does not exempt a source owner or operator from the requirement to submit a certified registration under §116.611(c), which is required to avoid the applicability of 30 TAC Chapter 122, Federal Operating Permits Program. Through the protectiveness review, the commission has determined that facilities meeting all of the applicable requirements of this standard permit will be protective of health and human welfare, and individual notifications or review of registrations by TCEQ staff is not necessary.

General Operating Requirements

Section (4) contains the general operating requirements that must be met by all peanut handling operations seeking authorization under this standard permit. Subsection (A) specifies that facilities authorized by this standard permit and located in counties subject to emissions banking and trading requirements and to nitrogen compound limitations and requirements must comply with all applicable requirements of 30 TAC Chapter 101, Subchapter H, Division 3, Mass Emissions Cap and Trade Program, and 30 TAC Chapter 117. Authorization under this standard permit does not exempt facilities from any of the regulations in subsection (A) or any other applicable regulations.

Subsection (B) requires that all conveyors and elevator legs authorized by this standard permit be enclosed. This subsection also specifies that exhaust air to the atmosphere from any pneumatic

conveying system or from the pulling of suction on mechanical systems be vented through a cyclone collection system or through a fabric filter system. The cyclone and/or fabric filter systems must be operated as specified in subsection (4)(C) of this standard permit.

Subsection (C) specifies the operating requirements and design parameters for all fabric filter and cyclone collection systems used. Fabric filter collection systems must be operated properly with no tears or leaks; be designed to meet an outlet grain loading not to exceed 0.01 grains per dry standard cubic foot (gr/dscf) (combined front half and back half); and not exceed an opacity of five percent averaged over a six-minute period. Cyclone collection systems must be operated properly with no leaks; be properly sized high efficiency cyclones with a cone length at least twice the diameter of the cyclone; and not exceed an opacity of ten percent averaged over a six-minute period.

Subsection (D) prohibits visible emissions from the operation of any peanut dryer authorized by this standard permit from leaving the property.

Subsection (E) specifies that fuel used for any dryer or burner authorized by this standard permit shall be pipeline quality sweet natural gas or propane. Emissions from the use of both fuel types were evaluated through modeling and were determined to be protective of public health and welfare.

Subsection (F) requires that all stoners, cleaners, screens, aspirators, shellers, and any other peanut cleaning equipment authorized by this standard permit and with pneumatic handling of material shall be equipped with either a cyclone or fabric filter as specified in subsection (4)(C) of this standard permit.

Requirements for all fan discharges from grinders and hammermills authorized by this standard permit and with pneumatic handling of material are addressed in subsection (G), and these discharges shall be equipped with a fabric filter system as specified in subsection (4)(C) of this standard permit or be equipped with a method of control designed to meet an outlet grain loading not to exceed 0.01 gr/dscf (combined front half and back half).

Emissions from pelletizing systems authorized by this standard permit are addressed in subsection (H). Exhaust air from these systems shall be vented to a cyclone system as specified in subsection (4)(C) of this standard permit before being released to the atmosphere. The requirements in subsection (4)(C) do not apply to cyclones being used as product separators.

Subsection (I) requires that all loadout devices authorized by this standard permit be equipped with drop socks at the drop points to minimize fugitive emissions from loadout areas.

Housekeeping requirements are specified in subsections (J) and (K). Subsection (J) requires that the spillage of any raw products, finished products, or waste products be cleaned up on a daily basis. Waste products must be removed from the site on a daily basis or may be stored on site in a manner that prevents exposure to the elements. Raw products and finished products must also be stored in a contained manner that prevents exposure to the elements. The prevention of exposure to the elements should help minimize the potential for nuisance conditions since

exposure to the wind causes the potential for products to be blown off site onto neighboring properties and cause nuisance dust conditions. Exposure to rain can cause peanuts to sour and produce nuisance odors, which can travel off property. Subsection (K) requires the maintenance of on-site roads and other traffic areas to be conducted as necessary through the sprinkling of water, treatment with effective dust suppressants, and/or paving with a cohesive hard surface that is cleaned. The best management practices in this subsection help minimize the potential for off-property nuisance dust conditions resulting from roads and other traffic areas. The requirements in subsections (J) and (K) do not exempt peanut handling operations from the requirements in 30 TAC §101.4, Nuisance.

Subsection (L) requires that all air pollution abatement equipment be checked every 30 days (unless more frequent checks/inspections are otherwise specified in this standard permit) and be properly maintained and operated, which includes scheduled cleaning and maintenance as recommended by the manufacturer and as necessary to adequately maintain equipment efficiency. This subsection was revised in response to a comment received from the U.S. Environmental Protection Agency (EPA) stating that the standard permit must specify a representative monitoring frequency to ensure compliance with the opacity limits. The opacity limits apply to the fabric filter and cyclone collection systems.

The requirements in subsections (B) through (L) represent BACT and will reduce particulate emissions to minimize nuisance potential and protect human health and welfare. The TCAA and 30 TAC Chapter 116 require that standard permits apply BACT. Subsections (B) through (L) were obtained from existing case-by-case NSR permits for peanut handling operations and represent BACT for this industry.

Subsection (M) requires that all facilities and associated equipment authorized by this standard permit, including any transfer equipment, be maintained in good working order and operated properly. This requirement is included to ensure that all processing equipment is properly operated and maintained to minimize nuisance potential.

Subsection (N) specifies that the maximum hourly facility production capacities shall not exceed the values used to determine compliance with the 24-hour NAAQS for PM_{10} as shown by the plotted line in Figure 1 of this standard permit. The figure shows maximum short-term emission rates allowed for a specific setback distance of facility emission points to the nearest point on the nearest property line. A specific setback and emission rate correlate to a point on the graph that will either fall in the "acceptable" area of the graph or on the dividing line. To ensure compliance with this standard permit, owners and operators must demonstrate that emission rates and setbacks are inside the “acceptable” area of the graph or on the dividing line. Should the point for an emission rate and setback fall in the "unacceptable" area of the graph, the setback must be increased or the emission rate reduced. The production capacities, in conjunction with previously determined emission factors, are used to calculate the maximum allowable short-term emission rates. Additional information regarding the modeling used to develop Figure 1 can be found in the Protectiveness Review portion of this technical summary.

Subsection (O) addresses all recordkeeping requirements for facilities authorized by this standard permit. All records must be kept for a rolling 24-month period and be made available at the

request of personnel from the TCEQ or any other air pollution control agency or program having jurisdiction. Paragraph (O)(i) requires the owner or operator to maintain all records sufficient to demonstrate that the peanut handling operation is meeting all applicable emission rate and property line minimum setback distance limitations determined by using Figure 1 of this standard permit. This paragraph is used in conjunction with subsection (4)(N) and further clarifies that all records must be maintained to demonstrate the operation's continued compliance with the emission rates and corresponding setback distances in Figure 1 of this standard permit. Paragraph (O)(ii) requires that records of periodic monitoring and scheduled cleaning and maintenance of abatement equipment be kept. These records must be maintained to demonstrate compliance with subsection (L) of this standard permit. The periodic monitoring reference was included to link recordkeeping requirements and the 30-day monitoring frequency added to subsection (L) of this standard permit. Paragraph (O)(iii) requires recordkeeping regarding planned MSS facilities and activities to demonstrate compliance with the operational requirements (material usage rates and emission rate limitations) in paragraphs (6)(C)(i) through (6)(C)(iv) of this standard permit.

Requirements Specific to Peanut Handling Operations (New, Modified, or Existing)

Section (5) of this standard permit addresses new, modified, or existing peanut handling operations. Paragraph (A)(i) requires the use of calculation methods accepted by the TCEQ at the time of the standard permit claim to determine emission rates.

Peanut handling operations meet the conditions of paragraph (A)(ii) if the total PM_{10} emissions from the site, including emissions from facilities and activities as specified in section (6) of this standard permit, do not exceed 9.60 lb/hr. The total PM_{10} emissions may exceed 9.60 lb/hr if all facility emission points, including facilities and activities as specified in section (6) of this standard permit, emitting PM_{10} at the site meet the specified minimum setback distance to the property line required to demonstrate compliance with the 24-hour PM_{10} NAAQS determined by using Figure 1 of this standard permit. The emission rates and distance requirements in Figure 1 were determined through current modeling techniques and will be discussed further in the Protectiveness Review portion of this technical summary. All PM_{10} emission rates referenced in subsection (A) are site-wide; therefore, PM_{10} emissions from any other facilities or sources at the site must be included when determining the required minimum setback distance and qualification for this standard permit. Subparagraph (A)(ii)(b) also includes a clarification that the minimum setback distance to the property line shall be measured from each facility emission point or maintenance activity emission point to the nearest property line using the shortest distance to that property line (i.e., the nearest corresponding property line). All facility emission points and maintenance activity emission points must meet the minimum setback distance requirements determined by using Figure 1 of this standard permit.

Subsection (B) specifies that neither notification nor registration is required. To streamline the permitting process and allocate resources to more complex and controversial permitting projects, these facilities were evaluated to determine whether peanut handling operations meeting all of the applicable requirements of this standard permit could be exempt from the notification and registration processes. Based on the review of existing permits, discussions within affected areas of the TCEQ, and the emission rate limitations and distance requirements determined to be

protective through the modeling, the commission determined that notification and registration are not required.

Planned Maintenance, Start-up, and Shutdown (MSS) Activities

Section (6) of this standard permit addresses emissions from planned MSS activities from those facilities authorized by this standard permit. Subsection (A) specifies that emissions from planned start-up and shutdown activities are authorized by this standard permit. Start-up and shutdown emissions are virtually indistinguishable from production emissions. Although there may be minor emissions associated with start-up and shutdown, particulate emission factors used to quantify production emissions are considered to have enough conservatism to include any incidental increases that may be attributed to start-up and shutdown. In addition, emissions from planned start-up and shutdown of combustion units should not result in any quantifiable hourly emissions change of products of combustion. Although there may be transitional and incidental spikes before units stabilize during start-ups (5 to 15 minutes), overall products of combustion are expected to be within hourly range limits for normal loads during production operations. Start-up and shutdown emissions for peanut handling operations were evaluated through air dispersion modeling, and when combined with emissions from production, all emissions were determined to be protective provided that the operation is in compliance with all requirements of the standard permit.

Emissions from specific planned maintenance activities are authorized by this standard permit, and these activities are listed in subsection (B). The planned maintenance activities and facilities listed in this subsection apply to those peanut handling operations authorized by this standard permit. After discussions with industry representatives, a list of common maintenance activities and facilities was developed, and the frequency and timing of the maintenance activities was also determined. Common maintenance activities and facilities authorized by this standard permit include abrasive blasting, surface preparation, surface coating, compressors/pumps/engines, hand-held or manually operated equipment, vacuum cleaning systems, hydraulic oil filtering, lubrication, and brazing/soldering/welding/metal cutting equipment. Emissions from the activities listed in subsection (B) are expected to be protective due to the operational requirements and site-wide emission rate limitations specified in subsection (6)(C) of this standard permit.

The operational requirements in subsection (C) consist of site-wide material usage rate limitations for abrasives, solvents, lubricants, coatings, dyes, bleaches, fragrances, and water-based surfactants and detergents; restrictions on planned maintenance activities occurring simultaneously with each other and with production operations; and site-wide emission rate limitations for lead and all other contaminants associated with planned maintenance activities. The material usage limitations have been previously evaluated and are considered de minimis, and the emission limitations for lead (0.6 tons per year) and all other contaminants (25 tons per year or less for any one contaminant) are considered insignificant and consistent with emission rate limitations in current PBRs. The material usage and emission rate limitations are also site-wide limitations to minimize cumulative emissions from planned maintenance activities that may be associated with other facilities (not authorized by this standard permit) located at the site. Planned maintenance activities, associated with the facilities or groups of facilities authorized by this standard permit, are not expected to result in adverse cumulative effects due to the restriction

of simultaneous maintenance activities and the restriction of those maintenance activities occurring with production operations.

Subsection (D) allows some flexibility to the facility operator regarding planned maintenance activities. Subsection (D) guides the applicant toward alternate methods of authorization for planned maintenance that cannot meet the requirements of subsections (6)(B) and (6)(C) of this standard permit. Forms of authorization are listed as any applicable PBR, any other applicable standard permit, or a combination of these mechanisms. Even with these options, protectiveness is maintained since planned maintenance activities still cannot occur simultaneously with each other, and cannot occur simultaneously with production operations. Any maintenance, start-up, and shutdown emissions that are not authorized are subject to the applicable requirements of 30 TAC Chapter 101, Subchapter F, Emissions Events and Scheduled Maintenance, Startup, and Shutdown Activities.

V. PROTECTIVENESS REVIEW

Particulate matter is the principal criteria pollutant emitted at a peanut handling site. For facilities authorized under this standard permit, predicted 24-hour and annual average concentrations of PM_{10} were evaluated for comparison to the PM_{10} NAAQS as part of the protectiveness review. Predicted concentrations for carbon monoxide (CO), sulfur dioxide (SO_2), and nitrogen dioxide (NO_2) (associated with products of combustion) were also evaluated for comparison to the NAAQS as part of the protectiveness review. Particulate matter less than or equal to 2.5 microns in diameter ($PM_{2.5}$) was evaluated through the comparison of predicted concentrations with the PM_{10} NAAQS. In accordance with the U.S. EPA's $PM_{2.5}$ surrogate policy, the TCEQ uses the PM_{10} program as a surrogate for the $PM_{2.5}$ program until the U.S. EPA fully implements and integrates $PM_{2.5}$ into the new source review program. PM_{10} controls and emissions were modeled, and predicted PM_{10} concentrations were compared to the PM_{10} NAAQS. Under the surrogate policy, compliance with the PM_{10} NAAQS was used as the surrogate for compliance with the $PM_{2.5}$ NAAQS. This is a reasonable approach given that a relatively small fraction of the PM_{10} emissions from this industry consist of $PM_{2.5}$. For this industry, 17 percent of PM_{10} emissions are assumed to be $PM_{2.5}$. The ratio of the 24-hour standards for $PM_{2.5}$ and PM_{10} (35 micrograms per cubic meter ($\mu g/m^3$) to 150 $\mu g/m^3$) is 23 percent. The ratio of the annual standards for $PM_{2.5}$ and PM_{10} (15 $\mu g/m^3$ to 50 $\mu g/m^3$) is 30 percent. Both of these ratios are greater than the fraction of $PM_{2.5}$ emissions. Therefore, demonstrating compliance with the PM_{10} NAAQS is sufficient to demonstrate compliance with the $PM_{2.5}$ NAAQS.

The primary NAAQS define a level of air quality that the U.S. EPA administrator determined is necessary, with an adequate margin of safety, to protect the public health. The secondary NAAQS define a level of air quality that the administrator determined necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. Such standards are subject to revision, and additional primary and secondary standards may be promulgated as the administrator deems necessary to protect the public health and welfare. The primary and secondary NAAQS for a 24-hour average for PM_{10} is 150 $\mu g/m^3$ while the primary and secondary NAAQS for the long-term average PM_{10} standard is 50 $\mu g/m^3$.

The protectiveness review examined worst-case predicted concentrations from peanut handling operations. The commission used the following modeling assumptions, selections, and techniques:

(1) air dispersion modeling was performed using ISC-PRIME (version 04269);

(2) scenarios for peanut handling operations and products of combustion were evaluated. The peanut handling operations scenario included PM_{10} emissions from bagfilters, cyclones, dryers, receiving operations, and handling and loadout operations. The products of combustion scenario included the higher emissions of SO_2, NO_2, and CO from the peanut dryers associated with two different fuels (natural gas and propane);

(3) the emission rates modeled were based on maximum hourly emissions. The emission rates of PM_{10} were adjusted in the model to represent 24-hour average emissions. Since peanut handling operations are seasonal sources that do not operate at maximum capacity throughout the year, the emission rates used for the PM_{10} and NO_2 annual averaging period were adjusted to represent annual average emissions based on six months of operation;

(4) daytime and nighttime hours were modeled;

(5) all facilities and equipment at the site were assumed to be within a 200-foot by 200-foot area for a conservative estimate of predicted concentrations. The peanut handling facilities have emissions from stacks and emissions that are fugitive in nature. The stacks were modeled as point sources and the fugitive emissions were modeled as area sources;

(6) all sources were co-located at the center of the property. By doing so, there is no bias based on source configuration and/or wind direction. This technique will also provide conservative results, since the cumulative impact of all sources is maximized;

(7) a fugitive adjustment factor of 0.6 was applied to the source emission rates of applicable sources in the modeling analysis to account for plume meander at low wind speeds and high atmospheric stability;

(8) a 0.75 factor was multiplied with the emission rate of NO_2. This is the U.S. EPA national default value, as referenced in Appendix W to Title 40 Code of Federal Regulations Part 51, Requirements for Preconstruction, Adoption, and Submittal of Implementation Plans to account for limited conversion of NO_X to NO_2;

(9) rural dispersion coefficients and flat terrain were used in the modeling analysis. The selection of rural dispersion coefficients is conservative because the final results are given in distance required to fall below the PM_{10} 24-hour NAAQS, and the distance to the maximum concentration for rural dispersion is farther than the distance with urban dispersion. Flat terrain is consistent with typical site locations for these facilities;

(10) BPIP-PRIME (version 04274) was used to develop the downwash parameters. A cylindrical structure was used as the only downwash structure. The radius of the structure was estimated by

converting the principal structure at an average-size peanut handling site into a circle with equivalent area. The height of the cylindrical structure was based on an average height for the principal structure at an average-size peanut handling site. The stacks were located at the center of the structure so there was no wind direction bias;

(11) the modeling analysis used surface data from Austin and upper air data from Victoria for the years 1983, 1984, 1986, 1987, and 1988. Since the analysis is primarily for short-term concentrations, this five-year data set includes worst-case short-term meteorological conditions that could occur anywhere in the state. The wind directions were used at ten-degree intervals to be coincident with the receptor radials. This would provide predictions along the plume centerline, which is a conservative result; and

(12) a polar receptor grid extending from the edge of the property to 1,850 feet with 50-foot spacing along each ten-degree radial was used in the modeling analysis. This was done to determine the plume centerline concentration.

To ensure that there are no adverse health effects, the commission performed air quality modeling to determine an appropriate setback distance from the site property line for peanut handling equipment and operations. The air quality modeling used in these analyses is typically conservative. Combined with conservative emission rate estimates, the modeling tends to over-predict maximum ground-level concentrations compared to actual monitored concentrations. The commission found that the 24-hour PM_{10} NAAQS is the limiting threshold for peanut handling operations. Based on modeling PM_{10}, the emissions from a peanut handling operation were used to establish certain limitations with respect to distances between facilities and the property line as a function of the site-wide emission rate. The modeling results demonstrated that the facilities at a peanut handling operation with site-wide emissions of PM_{10} less than or equal to 9.60 lb/hr do not require a setback distance to meet standards. For facilities with site-wide emissions greater than 9.60 lb/hr, a graph has been developed depicting the required minimum facility setback distance from the nearest property line versus the total site-wide allowable PM_{10} emissions to meet the NAAQS. The modeling report is available upon request.

VI. PUBLIC NOTICE AND COMMENT PERIOD

In accordance with 30 TAC §116.603, Public Participation in Issuance of Standard Permits, the TCEQ published notice of the proposed standard permit in the *Texas Register* and newspapers of the largest general circulation in the following metropolitan areas: Austin, Corpus Christi, Dallas, Houston, Lubbock, and Midland. The date for these publications was November 6, 2009. The public comment period ran from the date of publication until December 15, 2009. Comments on the proposed standard permit were received from the Texas Cotton Ginners' Association (TCGA), Texas Seed Trade Association (TSTA), and the U.S. Environmental Protection Agency (EPA).

VII. PUBLIC MEETINGS

The TCEQ held a public meeting on the proposed Air Quality Standard Permit for Peanut Handling Operations on December 10, 2009, at 9:30 a.m., at the TCEQ, Building B**,** Room 201A, 12100 Park 35 Circle, Austin, Texas. There were no formal comments submitted at the public meeting.

VIII. ANALYSIS OF COMMENTS

TCGA indicated support for the proposed standard permit.

The commission appreciates the support.

TCGA commented that the facilities covered by the proposed standard permit have a minor impact, and supported the concept of using a sliding scale for distance limitations based on emission rate.

The standard permit was designed with conditions and requirements that are intended to ensure that the facilities and operations covered by the standard permit will not have a detrimental effect on human health or the environment. The variable distance requirements in the standard permit will allow operational flexibility for owners and operators of authorized facilities while still establishing enforceable emission rates and ensuring that the standard permit is protective.

TCGA commented that the operations covered by the standard permit have many common features, and use standard control methods. TCGA commented that the proposed standard permit has requirements that are similar to case-by-case permits issued for these facilities, and therefore would be protective.

TCGA is correct that many of the facilities and operations covered by the standard permit have similar features and use common control methods. The terms and conditions of the standard permit are intentionally similar to the terms and conditions in case-by-case permits, as standard permits are required by statute to implement BACT and must be protective of human health and the environment.

TCGA commented that the proposed standard permit would substantially reduce the amount of time that TCEQ staff expends reviewing individual permit applications, and streamline the process for the applicants.

The commission agrees that the standard permit will reduce the time and resources that are currently expended to perform case-by-case permit reviews for these types of facilities. The standard permit will provide a streamlined authorization method for the regulated community and will allow the commission to focus resources on reviews of projects that are more environmentally significant.

TSTA stated that it is unclear if peanut seed conditioners are included in the proposed Air Quality Standard Permit. TSTA stated that peanut seed conditioners generally produce less dust than conventional peanut handling operations where the intended use of the peanut is other than for seed. TSTA explained that peanut seed is handled as gently as possible to preserve its quality and value, and this produces significantly less dust than other types of manipulation where the end use is processing or feeding. TSTA also stated that, due to the relatively high value of "seed" peanuts versus "regular" peanuts, periodic cleaning and maintenance of seed moving

equipment is performed on a relatively more frequent basis than in conventional peanut handling facilities. TSTA also stated that the majority of seed conditioning performed by seed producers in Texas is seasonal and hence not a frequent, daily or ongoing event, and most seed conditioners are located in rural areas of Texas in close proximity to the actual seed production sites. Most locations are relatively large properties and the chances of fugitive dust or emissions escaping the property are unlikely.

TSTA requested that TCEQ consider an exemption to this proposed standard permit for peanut seed conditioning facilities that manipulate or "handle" unpackaged peanuts intended for use as crop seed 75 days per year, or less, and in total annual quantities less than 25,000 bushels.

The commission has not changed the standard permit in response to this comment. These operations can use the peanut handling standard permit to handle the peanuts provided all requirements of the standard permit are met. The peanut handling standard permit cannot be used to treat the peanuts. Any peanut treatment must be authorized through an applicable permit by rule or a case-by-case air quality permit.

All standard permits must contain requirements that implement BACT, which is required under Texas Health and Safety Code (THSC), §382.0518(b), Preconstruction Permit and §382.05195(a), Standard Permit. Any facilities seeking authorization under this standard permit, regardless of any capacity or operating schedule limitations that are included, are still subject to BACT. The TSTA's request for an exemption more closely parallels requirements in 30 TAC Chapter 106, Permits By Rule, and the association should petition separately under Chapter 106 if they seek the creation of a PBR for peanut conditioning or treating.

EPA stated that the standard permit must contain additional language compelling the facility to ensure that the entire site's emissions do not exceed major source threshold levels.

The commission has not changed the standard permit in response to this comment. The standard permit contains a provision that specifies that the standard permit cannot be used to authorize any facility or project that would constitute a new major stationary source or a major modification. The provision further states that the standard permit cannot be used at a major source. This provision is similar to the language in 30 TAC §116.610(b), which EPA approved as a State Implementation Plan (SIP) revision on November 14, 2003 (68 FR 64543). The second part of this provision, which prohibits the standard permit from being used at a major source, is more conservative than is typical of TCEQ practice for standard permits. This provision was added to ensure protectiveness and further minimize concerns about federal applicability, but it is not an express requirement of the SIP or federal regulations concerning federal new source review. Finally, under 30 TAC §116.615(8), owners or operators are required to maintain records sufficient to demonstrate compliance with the applicable standard permit, which includes records to demonstrate that the site is not a major source. The commission believes the restrictions as written in the standard permit combined with the general conditions of 30 TAC §116.615 will be sufficient to allow TCEQ to enforce the condition relating to major source threshold levels.

EPA stated that the draft permit must provide a rationale to support the use of PM_{10} as a surrogate for $PM_{2.5}$. EPA cited the recent Louisville Gas and Electric Petition Response, No. IV-2002-3, from the EPA Administrator Jackson, dated August 12, 2009.

The modeling and protectiveness review for this standard permit determined that the combined $PM_{2.5}$ impacts from all sources would not exceed the short term $PM_{2.5}$ NAAQS standards of 35 micrograms per cubic meter averaged over a 24-hour period, or the annual $PM_{2.5}$ standards of 15 micrograms per cubic meter. A relatively small fraction of the PM_{10} emissions from this industry consist of $PM_{2.5}$.

EPA stated that the proposed standard permit must contain either an enforceable annual particulate matter (PM) emission limitation or a maximum hourly limitation to keep the emissions below major source NSR or Title V applicability thresholds. Although the permit does state that facilities are not eligible if they constitute a new major stationary source or major modification, EPA stated that this condition is not enforceable. EPA recommended the permit include annual limits to ensure that the facility cannot become a major source and require that the facility document annual PM emissions, along with production and/or operational limits. EPA stated that the permit must specify a representative monitoring frequency which will ensure that compliance is demonstrated with a PM limit.

The commission has not changed the standard permit in response to this comment. Although the standard permit PM emission limits are presented in a manner that is different from most other TCEQ permits, the standard permit does contain enforceable hourly emission limits for PM. The standard permit contains a graph that represents the relationship between the allowable short-term PM emission rate and the available setback distance to the nearest property line. For example, Figure 1 of this standard permit indicates that a site that has no effective setback distance to the property line is limited to a site-wide maximum emission rate of 9.60 lb/hr of PM_{10}. Also from Figure 1, a site with a setback distance of 300 feet is limited to a site-wide maximum short-term emission rate of 20.9 lb/hr. Regardless of the allowable short-term emission rate indicated by the applicable figure, other conditions of the standard permit concerning the non-applicability of the standard permit to major sources also remain in effect independently. The owner or operator of the standard permit facility is required by the standard permit to maintain records to show compliance with the applicable emission rate determined by the applicable graph. Under 30 TAC §116.615(8), the owner or operator is also required to maintain records sufficient to demonstrate compliance with the standard permit, which includes records to demonstrate that the site is not a major source. TCEQ will enforce these conditions by inspection of these records.

As a point of clarification, although EPA's comment references Title V applicability thresholds in addition to Federal New Source Review (FNSR) thresholds, TCEQ is not aware of any restriction or prohibition on the use of standard permits issued under Subchapter F of 30 TAC Chapter 116 at a facility or site that is subject to Title V permitting. Although TCEQ does not allow a standard permit to be used to authorize a project that would constitute a major source or major modification under FNSR, TCEQ

does not globally prohibit the use of a standard permit to authorize a project at a site that is potentially subject to Title V.

The commission has not included a monitoring frequency to demonstrate compliance with a PM limit. Because of the low level of emissions expected at these sites, the commission determined that monitoring frequencies associated with PM emission rate limitations are not necessary. The recordkeeping requirements in the standard permit are sufficient to demonstrate compliance with the specified emission rate limitations.

EPA stated that the permit must specify a representative monitoring frequency to ensure compliance with the opacity limit, and a recordkeeping requirement to ensure enforceability of the opacity limit.

The commission agrees with the EPA's comment and a monitoring frequency has been added to the standard permit to aid in the demonstration of compliance with specified opacity limitations. However, as it is not feasible for these operations to keep a certified opacity reader on site, the TCEQ has addressed this through a regular control device inspection program instead of direct measurements of opacity. The standard permit now includes a requirement that all air pollution abatement equipment must be checked for proper operation every 30 days (unless more frequent checks/inspections are otherwise specified in the standard permit). The recordkeeping requirements of the standard permit have also been changed to clarify that records are required to demonstrate compliance with this monitoring frequency. In addition to the monitoring now included in the standard permit, the commission will also continue to rely on periodic inspections to enforce opacity limits and control nuisances. The TCEQ investigators will use EPA Test Method 9 to determine compliance with the opacity limitation(s).

EPA stated that the permit must specify that all equipment within the stationary source should be considered in the emissions determination.

The commission has not changed the standard permit in response to this comment. The Applicability section of the standard permit includes a condition that states that the standard permit cannot be used if the total site-wide emissions do not meet the applicable emission rate requirements. Although this condition does not explicitly refer to "all equipment," it would not be possible to determine total site-wide emissions unless all sources of air pollution were included. Section IV of the permit technical summary, Permit Condition Analysis and Justification, notes that the determination of site-wide emissions includes emissions from all facilities at the site, including facilities that are not associated with the operation being authorized under the standard permit. The terminology used may be slightly different than suggested in EPA's comment, but the language used in the standard permit and technical summary will accomplish the same goal. Note that the term "site" is potentially even broader than the term "stationary source" as a site can include multiple stationary sources.

EPA stated that to ensure enforceability, the permit must contain recordkeeping requirements for the PM and opacity emission limitations.

The standard permit as proposed requires that the owner or operator maintain records to demonstrate that the operation meets the applicable emission rate and setback distance requirements. With respect to opacity, it is not feasible for these small operations to keep a certified opacity reader on site, therefore the commission will enforce the opacity requirements through periodic monitoring of equipment performance and periodic TCEQ inspections. The owner or operator is required to maintain records of the periodic equipment/control device monitoring.

EPA requested that TCEQ consider a five-year records retention period (instead of the proposed two year period) to facilitate enforcement of other SIP requirements.

The commission has not changed the standard permit in response to this comment. TCEQ typically uses a two-year (24-month rolling) recordkeeping timeframe in association for non-major forms of authorization such as PBRs and standard permits, unless some other factor justifies a longer retention period. A five-year recordkeeping requirement would be more typical for records associated with federal regulations or a Title V permit. TCEQ is uncertain what other SIP requirements EPA is referring to in this comment. In the absence of more specific rationale to justify a five-year record retention period, TCEQ is electing to maintain the proposed 24-month retention period. However, standard permit holders should be aware that a five-year record retention period would apply if the standard permit operation is located at a site that is subject to Title V.

EPA requested that TCEQ include a provision stating any noncompliance with the permit constitutes a violation of the SIP and state law and is grounds for an enforcement action, for permit suspension, revocation, or revision, or for denial of a permit renewal application. In addition, EPA stated that the permit must contain reporting requirements for noncompliance with permit terms.

Although the commission's authority to enforce, revoke, revise, or deny a permit is already expressed in other commission rules and Texas statutes, the commission concurs that the permit should contain a provision to clearly state that emissions that exceed the limitations of the permit are a violation of the permit, and has added such a statement to the standard permit. With respect to reporting requirements for noncompliance with permit terms, TCEQ does not typically include such a condition in standard permits except in particular cases (for example, boilers equipped with a continuous emission monitoring system). Operations authorized under this standard permit are subject to all the rules of the commission including the recordkeeping and reporting requirements of 30 TAC Chapter 101, Subchapter F, Emissions Events and Scheduled Maintenance, Startup, and Shutdown Activities. Additional reporting requirements may apply if the standard permit facility is covered by a Title V permit.

EPA stated that they did not have access to the modeling used to make the determination for the lack of emission limits or operational limitations in the permit. EPA asked if TCEQ made the modeling data readily available, and if so, how was it made available.

The modeling data was made readily available; as stated in each standard permit proposal technical summary document, the modeling data for each standard permit was and is available upon request.

IX. STATUTORY AUTHORITY

This standard permit is issued under THSC, §382.011, General Powers and Duties, which authorizes the commission to control the quality of the state's air; THSC, §382.023, Orders, which authorizes the commission to issue orders necessary to carry out the policy and purposes of the TCAA; THSC, §382.051, Permitting Authority of Commission; Rules, which authorizes the commission to issue permits, including standard permits for similar facilities; THSC, §382.0513, Permit Conditions, which authorizes the commission to establish and enforce permit conditions consistent with Subchapter C of the TCAA; and THSC, §382.05195, Standard Permit, which authorizes the commission to issue standard permits according to the procedures set out in that section.

AIR QUALITY STANDARD PERMIT FOR PEANUT HANDLING OPERATIONS

Effective Date: April 7, 2010

This air quality standard permit authorizes the air emissions associated with peanut handling operations that meet all of the applicable conditions listed in sections (1) through (6) of this standard permit.

This standard permit does not relieve the owner or operator from complying with any other applicable provision of the Texas Health and Safety Code, Texas Water Code, rules of the Texas Commission on Environmental Quality (TCEQ), or any additional state or federal regulations. Emissions that exceed the limits in this standard permit are not authorized and are violations of the standard permit.

(1) Applicability

(A) This standard permit may be used to authorize air emissions from peanut handling operations (including peanut dryers, screens, aspirators, cleaners, shellers, stoners, milling equipment, and pelletizing equipment) on or after the effective date of this standard permit. This standard permit also authorizes any fugitive emissions associated with a peanut handling operation authorized by this standard permit.

(B) A peanut handling operation does not qualify for authorization under this standard permit if any on-site associated fuel-fired equipment (including, but not limited to, dryers and burners) has an individual heating rate of ten million British thermal units per hour (Btu/hr) or greater, or a combined heating rate of greater than 80 million Btu/hr.

(C) A peanut handling operation does not qualify for authorization under this standard permit if it constitutes a new major stationary source or major modification as defined by Title 30 Texas Administrative Code (30 TAC) §116.12, Nonattainment and Prevention of Significant Deterioration Review Definitions, or is located at a major stationary source.

(D) This standard permit cannot authorize any emission increase of an air contaminant that is specifically prohibited by a condition in any permit issued under 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification, at the site.

(E) This standard permit cannot be used in conjunction with any permit or standard permit issued under 30 TAC Chapter 116 or in conjunction with any permit by rule (PBR) under 30 TAC Chapter 106, Permits by Rule, except that PBRs and standard permits may be used, as specified in section (6) of this standard permit, to authorize planned maintenance activities and facilities. This requirement does not preclude the use of permits, standard permits, and PBRs to authorize other facilities (that are not associated with the peanut handling operation) at the site provided the peanut

handling operation remains in compliance with all requirements of this standard permit.

(F) This standard permit cannot be used if the total site-wide emissions do not meet the emission rate requirements specified in sections (5) and (6) of this standard permit.

(2) Definitions

(A) Peanut handling operation - a facility, or group of facilities, that receives, handles, cleans, dries, stores, or loads out peanuts.

(B) Site - a site as defined in 30 TAC §122.10, General Definitions.

(3) General Administrative Requirements

Any claim under this standard permit must comply with applicable conditions of 30 TAC Chapter 116, Subchapter F, Standard Permits, except 30 TAC §116.610(a)(1), Applicability; §116.611(a) and (b), Registration to Use a Standard Permit; §116.614, Standard Permit Fees; and §116.615(5), Start-up Notification (General Conditions).

(4) General Operating Requirements

(A) Facilities authorized by this standard permit and located in counties subject to 30 TAC Chapter 101, Subchapter H, Division 3, Mass Emissions Cap and Trade Program, and 30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds, shall comply with all applicable requirements in 30 TAC Chapter 101, Subchapter H, Division 3, and 30 TAC Chapter 117.

(B) All conveyors and elevator legs authorized by this standard permit shall be enclosed. Exhaust air to the atmosphere from pneumatic conveying systems or from the pulling of suction on mechanical systems shall be vented through a cyclone collection system or through a fabric filter system, each of which must operate as specified in subsection (4)(C) of this standard permit.

(C) All fabric filter and cyclone collection systems used to control particulate emissions from the peanut handling operation authorized by this standard permit shall meet the following requirements, as applicable:

(i) fabric filter systems shall be operated properly with no tears or leaks;

(ii) fabric filter systems shall be designed to meet an outlet grain loading not to exceed 0.01 grains per dry standard cubic foot (gr/dscf) (combined front half and back half);

(iii) in accordance with U.S. Environmental Protection Agency (EPA) Test Method 9, opacity of emissions from any fabric filter shall not exceed five percent averaged over a six-minute period;

(iv) cyclone collection systems shall be operated properly with no leaks;

(v) cyclone collectors shall be properly sized high efficiency cyclones with a cone length at least twice the diameter of the cyclone; and

(vi) in accordance with U.S. EPA Test Method 9, opacity of emissions from any cyclone shall not exceed ten percent averaged over a six-minute period.

(D) No visible emissions from the operation of any peanut dryer authorized by this standard permit shall leave the property.

(E) Fuel for any dryer or burner authorized by this standard permit shall be pipeline quality sweet natural gas or propane.

(F) All stoners, cleaners, screens, aspirators, shellers, and any other peanut cleaning equipment authorized by this standard permit and handling material pneumatically shall be equipped with either a cyclone or fabric filter system as specified in subsection (4)(C) of this standard permit.

(G) All fan discharges from grinders and hammermills authorized by this standard permit and handling material pneumatically shall be equipped with a fabric filter system as specified in subsection (4)(C) of this standard permit or shall be equipped with a method of control designed to meet an outlet grain loading not to exceed 0.01 gr/dscf (combined front half and back half).

(H) All pelletizing systems authorized by this standard permit shall vent the exhaust air to a cyclone system as specified in subsection (4)(C) of this standard permit before releasing the exhaust air to the atmosphere. If the cyclone is used as a product separator, the requirements in subsection (4)(C) do not apply.

(I) All loadout devices (augers, drop spouts, etc.) authorized by this standard permit shall be equipped with drop socks at the drop points to minimize fugitive emissions from loadout areas.

(J) Spillage of any raw products, finished products, and waste products shall be cleaned up on a daily basis. Waste products shall be removed on a daily basis from the site or shall be stored in a contained manner that prevents exposure to the elements. Raw products and finished products shall be stored in a contained manner that prevents exposure to the elements.

(K) One or more of the following methods shall be used to control emissions from all in-plant roads, truck loading and unloading areas, parking areas, and other traffic areas to maintain compliance with all TCEQ rules and regulations:

(i) sprinkling with water as necessary;

(ii) treating with effective dust suppressant(s) as necessary; or

(iii) paving (with a cohesive hard surface) and cleaning as necessary.

(L) All air pollution abatement equipment shall be checked every 30 days (unless more frequent checks/inspections are otherwise specified in this standard permit) and shall be properly maintained and operated during the operation of the facilities authorized by this standard permit. Scheduled cleaning and maintenance of the abatement equipment shall be performed as recommended by the manufacturer and as necessary so that the equipment efficiency is adequately maintained.

(M) All facilities and associated equipment authorized by this standard permit, including any transfer equipment, must be maintained in good working order and operated properly.

(N) Maximum hourly facility production capacities shall not exceed the values used to determine compliance with the 24-hour National Ambient Air Quality Standards (NAAQS) for particulate matter less than or equal to ten microns in diameter (PM_{10}) as shown by the plotted line in Figure 1 of this standard permit.

(O) For all peanut handling operations and planned maintenance, start-up, and shutdown (MSS) facilities and activities authorized by this standard permit, the following records shall be maintained at the site for a rolling 24-month period and be made available at the request of personnel from the TCEQ or any other air pollution control agency or program having jurisdiction:

(i) all records to demonstrate that the peanut handling operation meets the applicable emission rate and minimum setback distance limitations determined by using Figure 1 of this standard permit;

(ii) records of periodic monitoring and scheduled cleaning and maintenance of the abatement equipment to demonstrate compliance with subsection (L) of this standard permit; and

(iii) records containing sufficient information to demonstrate compliance with paragraphs (6)(C)(i) through (6)(C)(iv) of this standard permit that include:

(a) the type and reason for the activity or facility;

(b) the processes and equipment involved;

(c) the date, time, and duration of the activity or facility operation; and

(d) the amount of material usage and emission rates.

(5) Requirements Specific to Peanut Handling Operations (New, Modified, or Existing)

(A) In addition to section (4) of this standard permit, peanut handling operations shall also meet the following requirements:

(i) emission rates shall be determined using calculation methods accepted by the TCEQ Air Permits Division at the time of the standard permit claim; and

(ii) a peanut handling operation shall meet one of the following scenarios:

(a) total PM_{10} emissions from the site (including emissions from facilities and activities as specified in section (6) of this standard permit) shall be less than or equal to 9.60 pounds per hour (lb/hr); or

(b) total PM_{10} emissions from the site may be greater than 9.60 lb/hr if all facilities (including facilities and activities as specified in section (6) of this standard permit) emitting PM_{10} at the site meet the minimum setback distance to the property line determined by using Figure 1 of this standard permit. The minimum setback distance shall be measured from each facility emission point or maintenance activity emission point to the nearest property line using the shortest distance to that property line. All facility emission points and maintenance activity emission points must meet the minimum setback distance requirements determined by using Figure 1 of this standard permit.

(B) Notification and registration are not required for peanut handling operations authorized by this standard permit.

(6) Planned Maintenance, Start-up, and Shutdown (MSS) Activities

(A) This standard permit authorizes all emissions from planned start-up and shutdown activities associated with facilities or groups of facilities that are authorized by this standard permit.

(B) This standard permit authorizes emissions from the following planned maintenance activities and facilities associated with peanut handling operations that are authorized by this standard permit:

(i) abrasive blasting (wet blast and dry abrasive cleaning);

(ii) surface preparation;

(iii) surface coating;

(iv) compressors, pumps, or engines, and associated pipes, valves, flanges, and connections;

(v) hand-held or manually operated equipment used for buffing, polishing, carving, cutting, drilling, machining, routing, sanding, sawing, surface grinding, or turning of ceramic precision parts, leather, metals, plastics, fiber board, masonry, carbon, glass, graphite, or wood;

(vi) vacuum cleaning systems;

(vii) hydraulic oil filtering;

(viii) lubrication; and

(ix) brazing, soldering, welding, or metal cutting equipment.

(C) Planned maintenance activities and facilities shall meet the following requirements.

(i) The following materials are authorized and shall not be used at the site at more than the rates prescribed below:

(a) abrasives - 150 tons per year, 15 tons per month, and one ton per day;

(b) cleaning and stripping solvents and lubricants - 50 gallons per year;

(c) coatings (excluding plating materials) - 100 gallons per year;

(d) dyes - 1,000 pounds per year;

(e) bleaches - 1,000 gallons per year;

(f) fragrances (excluding odorants) - 250 gallons per year; and

(g) water-based surfactants and detergents - 2,500 gallons per year.

(ii) Planned maintenance activities associated with facilities or groups of facilities authorized by this standard permit shall not occur simultaneously (no two or more processes can occur at the same time), and these planned maintenance activities shall not occur simultaneously with production operations;

(iii) Planned maintenance activities and facilities at the site shall not emit more than 25 tons per year of any one air contaminant; and

(iv) Lead emissions from planned maintenance activities or facilities at the site shall be less than 0.6 tons per year.

(D) Planned maintenance that cannot meet the requirements of subsections (6)(B) and (6)(C) of this standard permit may be authorized by one or by a combination of the following mechanisms, provided the planned maintenance activities do not occur simultaneously (no two or more processes can occur at the same time), and the planned maintenance activities do not occur simultaneously with production operations:

(i) any applicable PBR under 30 TAC Chapter 106; or

(ii) any other applicable standard permit.

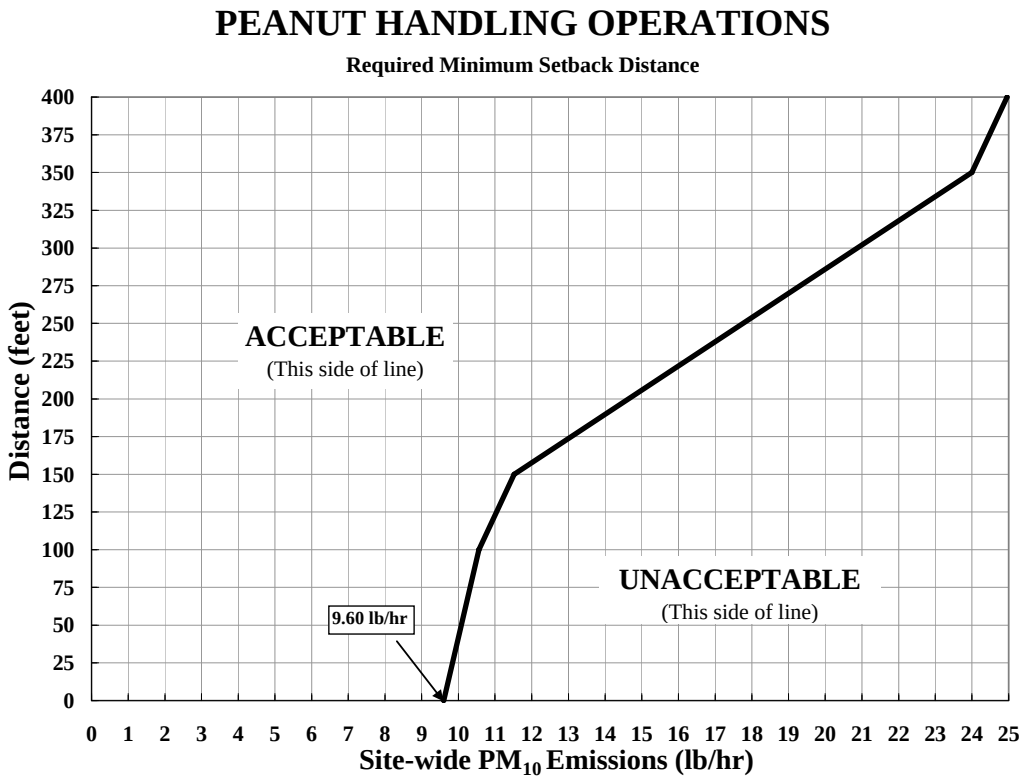
PEANUT HANDLING OPERATIONS
Required Minimum Setback Distance
Distance (feet)
400
375
350
325
300
275
250
225
200
175
150
125
100
75
50
25
0
ACCEPTABLE
(This side of line)
UNACCEPTABLE
(This side of line)
9.60 lb/hr
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
Site-wide PM10 Emissions (lb/hr)

Figure 1