

Supplemental Information Sheet
for Grain Elevators/Feedmills
TCEQ Office of Air Quality

In addition to general application forms, several items are needed to adequately evaluate an application for a grain elevator or feed mill. These items include, but are not limited to:

1. A cover letter giving a brief description of the expansion, replacement, or construction proposal and what action is being requested from the Texas Commission on Environmental Quality (TCEQ) (i.e. construction, amendment, revision, renewal). Any previous contact with the TCEQ should be discussed and this letter should indicate where copies of the application are being sent.

2. A complete history of the facility indicating dates and descriptions of original construction, ownership changes, and expansion projects. Discuss any dust or odor problems encountered with neighbors or the TCEQ and how they were resolved, see the Compliance History instructions attached to Form PI-1.

3.
 - a. Is this a country or terminal grain elevator, commercial feedmill, or on-site feedmill?
 - b. List all grains and commodities to be received at this facility.
 - c. List all finished products shipped from this facility.
 - d. What is the maximum hourly receiving rate for each item in 3b.
 - e. Method of receiving grains and commodities (approximate percentages):
_____ % received by hopper bottom railcar;
_____ % received by hopper bottom truck;
_____ % received by bobtail dump truck.
 - f. What is the maximum hourly milling/mixing rate expected with your given operation?
 - g. What is the maximum hourly loadout/shipping rate for each item in 3b.
 - h. What is the maximum hourly loadout/shipping rate for each item in 3c.
 - i. What is the maximum annual throughput for each item in 3b?
 - j. What is the maximum annual throughput for each item in 3c?

- k. Facilities with more than one receiving pit or loadout spout should identify each pit and spout and the percentage of annual throughput handled through each pit or spout.
 - l. Are there any schools within 3000 feet of this operation?
 - m. What is the normal operating season/schedule for this operation?
 - n. List any chemical/pesticide usage and how it is applied.
4. List each storage bin, the individual storage capacity for each bin, and the maximum one time storage capacity for this facility in bushels. If the one time storage capacity is greater than 2.5 million bushels, the facility is subject to NSPS Subpart DD. Facilities handling grains for human consumption are subject to Subpart DD if the storage capacity exceeds 1 million bushels. Facilities subject to NSPS should so indicate and supply the necessary information to show compliance with Subpart DD (copies available upon request).
 5. List all dryers (column or rack), roasters, or other fuel fired equipment. Include their individual rated hourly capacity of grain, maximum annual throughput of grain expected, individual Btu rating and the type of fuel being burned. Specifications should be supplied for all dryers indicating inlet and outlet screen perforation sizes for column type dryers. What is the average number of times grain is run through the dryer?
 6. A block flow diagram of the operation. This should identify each receiving area, loadout area, fans, dryers, cleaning equipment, control devices, storage bins and any other pieces of equipment. For expansion projects, the changes or additions should be highlighted and it may prove helpful to show a before and after block flow diagram. Everything on the diagram should be labeled and assigned an I.D. (such as F1 for fan #1 or C1 for cyclone #1) that can be referred back to in other portions of the application (i.e. process description, plot plan).
 7. A plot plan showing the property line, all buildings, receiving and loadout areas, parking lots, traffic pathways, an approximate scale, and a north arrow. Label any areas paved or treated with dust suppressants.

8. A written process description of the operation that carries the reader smoothly through the process. Describe how all products are received (truck or rail), conveyed (pneumatically, augers, elevators, or front-end loaders), processed, stored, and shipped. Identify the rated hourly capacity for each individual stage and what is being accomplished at each stage. This description should identify each potential fugitive source (receiving, loadout, and transfer points) and each point source (dryer, cyclone, bagfilter exhaust points). Include the I.D.s from the flow diagram and note which items are being proposed for expansion projects.
9. Control of Emissions. This discussion should identify potential emission sources and the control devices or methods utilized for controlling/eliminating these sources. Discuss the use of enclosed conveying, “choke feeding” (allowing receiving pits to fill up before the operation of any receiving conveyors commences), enclosed receiving/loadout areas, high efficiency cyclones, bagfilters, mineral oils for controlling grain dust or paving for controlling road dust.
10. A detailed description of all maintenance and housekeeping procedures employed by the facility for ensuring nuisance odors/dust will not occur. Discuss inspection/maintenance of control devices, removal of spillage, repairing of pot holes to prevent standing water/grain spoilage. Any mills handling rendering by-products should identify how the material is stored and used to prevent nuisance odors.
11. A fan chart. This chart should list each fan, it’s I.D., it’s purpose (i.e. hammermill #1 fan), the maximum and average flow rates expected for this installation (cfm), and the proposed control device (i.e. quad 36” 1D-3D cyclones or bagfilter).
12. Completed cyclone tables (TCEQ Table 10) for each cyclone. At a minimum, these tables should include the fan I.D. and name/purpose, maximum and average flow rates, type and configuration, and physical dimensions. Calculations should be provided to identify the inlet velocities for each cyclone to ensure that the cyclones were sized properly. This is calculated by dividing the expected average flow rate by the B and H dimensions (inlet area) on the Table 10s.

13. Completed scrubber tables (TCEQ Table 13) for each scrubber. At a minimum, these tables should include the point number, name of abatement device, maximum and average flow rates, scrubbing liquid composition and weight percent, scrubber type, and liquid injection rates. In addition, you should include the scrubber stack height, scrubber packing depth, residence time of gas stream in scrubber and packing material, and description of makeup water (recycle or single circulation).
14. Completed bag filter tables (TCEQ Table 11) for each bag filter. In addition, a manufacturer's guarantee for outlet grain loading rates should be included.
15. An area highway map with the proposed location clearly marked. If needed, provide additional instructions for locating the proposed site by vehicle.
16. A land use map. This map should have a north arrow, an approximate scale, and should identify the property line, major structures on-site and the distance and direction to any residences, schools, businesses or occupied structures within a 3000 foot radius of the proposed location. Any surrounding farmland or ranchland should be identified and any off-site structures owned or operated by the applicant should be identified. The prevailing wind patterns during the operating season should also be identified on the map. If requested, the Austin office of the TCEQ can provide wind rose data for the different areas around the state.
17. The capital cost of the proposed operation or the proposed expansion (Not required for renewal applications). (See TCEQ Table 30).
18. Application Fee. A minimum fee of \$450.00 is required for all construction and amendment applications. This fee is based on the capital cost of the proposed project (See Item 17 above). A minimum fee of \$300.00 is required for all renewal applications. This fee is based on the permitted allowable emission rates negotiated in the renewal process. The application fee should be mailed to the Austin office with the application.

19. A Certificate of Good Standing from the Comptroller's Office for incorporated facilities (Not required for renewals, revisions or amendments). The Comptroller's Office (phone # 1-800-252-1386) can provide a statement of exemption for corporations exempt from paying a franchise tax. Facilities not incorporated should supply a statement identifying their capital structure (i.e. sole proprietorship, partnership, cooperatives etc.).

20. Copies of this supplemental information sheet and any other references should be submitted with the application.

The attached general application and application forms should be completed and mailed with the information requested above to the Austin Office, the appropriate regional office of the TCEQ and to any city or county air programs with jurisdiction over the area of the proposed operation.