

**NOTICE OF APPLICATION
FOR
TITLE V AIR QUALITY OPERATING PERMIT**

The South Dakota Department of Environment and Natural Resources (DENR) has received and reviewed the application for a Title V air quality operating permit for the following applicant:

APPLICANT NAME: Advanced BioEnergy, LLC

FACILITY LOCATION: Aberdeen, South Dakota

The Title V air quality operating permit will allow the operation of the following processes and units:

1. Elevator legs transport the grain from the adjacent elevator to hammermill with a maximum operating capacity of 13.2 tons per hour. Cyclone collects the flour ground from hammermill. Flour is transported to the fermentation process.
2. 1991 Cleaver Brooks boiler fired with natural gas and distillate oil with a maximum operating rate of 31.38 million Btus per hour heat input.
3. 1992 Thompson Dehydration rotary drum dryer fired with natural gas with a maximum operating rate of 25 million Btus per hour heat input. Cyclone collects the product at a maximum operating rate of 4 tons per hour.
4. Fermentation process #1: Ethanol produced in four fermenters and the liquid beer is stored in beer well with a maximum operating rate of 7,800 gallons of mash per hour. Distillation Process #1: Distillation process consists of beer column, rectifier column, condensers, molecular sieve, and evaporator at a maximum operating rate of 7,800 gallons of mash per hour.
5. Dried distillers grain cooling and cyclone with a maximum operating rate of 4 tons per hour.
6. Industrial cooling tower #1 with a maximum operating rate of 360,000 gallons per hour.
7. Elevator legs transport the grain from the adjacent elevator a hammer mill with a maximum operating rate of 33.6 tons per hour for each of the two hammermills. A surge grain bin. A cyclone collects the flour. Flour is transported to the fermentation process. Unit is controlled by a baghouse.
8. Fermentation process #2: Ethanol produced in four fermenters and liquid beer is stored in a beer well with a maximum operating rate of 34,500 tons of mash per hour controlled by a wet scrubber.
9. Distillers grain dryer system #2. System consists of two dryers in series fired with natural gas with a maximum operating rate of 45 million Btus per hour. A cyclone collects the product with a maximum operating rate of 18 tons per hour. Distillation process #2. The distillation process distills the liquid beer. The distillation process consists of the beer column, rectifier column, condensers, molecular sieve, and evaporator. Miscellaneous tanks; process tank, slurry tank, yeast tank, flash tank, and CIP screen. Three centrifuges. Unit is controlled by thermal oxidizer / heat recovery boiler fired on the off-gases from the processes and natural gas with a maximum operating rate of 105 million Btus per heat input.

10. Dried distillers grain cooling and cyclone with a maximum operating rate of 23 tons per hour controlled by a baghouse.
11. Dried distillers grain loadout with a maximum operating rate of 400 tons per hour controlled by a baghouse.
12. Industrial cooling tower #2 with a maximum operating rate of 1,350,000 gallons per hour.
13. 1992 Cummins diesel fired emergency fire pump with a maximum operating rate of 130 horsepower.
14. Ethanol truck load out with a maximum operating rate of 36,000 gallons per hour controlled by a flare fired with the off gasses from the process and natural gas with a maximum operating rate of 12.4 million Btus per hour heat input.
15. Ethanol rail car load out with a maximum operating rate of 60,000 gallons per hour.
16. 2007 Patterson Pump Company diesel fired emergency fire pump with a maximum operating rate of 294.7 horsepower.
17. Biomethanator flare fired on the off gasses from the biomethanator system and natural gas with a maximum operating rate of 6.4 million Btus per hour heat input.
18. Tank #T-8422 above ground storage tank with an internal floating roof with a maximum storage capacity of 500,000 gallons.
19. Tank #T-8433 above ground storage tank with an internal floating roof with a maximum storage capacity of 500,000 gallons.
20. Tank #T-8401 above ground storage tank with an internal floating roof with a maximum storage capacity of 500,000 gallons.
21. Tank #T-8403 above ground storage tank with an internal floating roof with a maximum storage capacity of 100,000 gallons.
22. Tank #T-8414 above ground storage tank with an internal floating roof with a maximum storage capacity of 100,000 gallons.
23. Tank #T-8444 above ground storage tank with an internal floating roof with a maximum storage capacity of 500,000 gallons.
24. Tank #T-8455 above ground storage tank with an internal floating roof with a maximum storage capacity of 500,000 gallons.
25. Three liquefaction process tanks.
26. CIP process tank.
27. Cook water process tank.
28. Wet distillers grain with solubles storage with a maximum process rate of 406,250 tons per year.

A review of this application indicates Advanced BioEnergy, LLC can operate the ethanol production plant in compliance with South Dakota's Air Pollution Control rules and the federal Clean Air Act. DENR, therefore, recommends that the Board of Minerals and Environment issue a Title V air quality operating permit to Advanced BioEnergy, LLC with conditions to ensure compliance with South Dakota Codified Laws (SDCL) 34A-1 and the federal Clean Air Act.

In accordance with the Administrative Rules of South Dakota (ARSD) 74:36:05:17, any person desiring to comment on DENR's draft permit conditions must submit written comments to the address below by close of business on the thirtieth day of this public notice. Comments may be directed to the following mailing address: Ashley Brakke; PMB 2020; Department of

Environment and Natural Resources; Division of Environmental Services; 523 East Capitol, Pierre, South Dakota 57501. DENR will consider and address all comments submitted and issue a final permit decision pursuant to ARSD 74:36:05:18. DENR will notify the applicant and each person that requested notice or submitted written comments of DENR's final permit decision, including notification of any changes to the permit based on the comments.

Any person desiring to contest the issuance of this permit and have a contested case hearing must file a petition, which complies with ARSD 74:09:01:01. This petition must be filed either by close of business on the thirtieth day of this public notice or, if that person submits comments on DENR's draft permit pursuant to the paragraph above, within thirty days of receiving notice of DENR's final permit decision. Upon receipt of a petition, DENR will schedule this matter for a contested case hearing before the Board of Minerals and Environment.

If no comments or objections are received by close of business on the thirtieth day of this public notice, the draft permit becomes the final permit decision and the proposed permit will be submitted to EPA for review.

Copies of DENR's draft permit conditions and other information may be obtained from Ashley Brakke, Engineer II, at the above address or telephone at (605) 773-3151 or from DENR's website at:

<http://denr.sd.gov/des/aq/aapubnot.aspx>

Steven M Pirner, Secretary
Department of ~~Environment~~ and Natural Resources

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